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CURRENT INDUSTRIAL REPORTS

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Manufacturers' Shipments, Inventories, and Orders

JANUARY 1980

M3-1(80)-1

For Release 3:30 P.M. Tuesday, March 4, 1980



U.S. Department of Commerce
BUREAU OF THE CENSUS

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in January rose \$5.4 billion or 3.6 percent to \$155.1 billion the Department of Commerce, Bureau of the Census reported today. This is the largest 1-month increase since the 3.9 percent rise recorded in October 1978.

Orders for manufacturers' durable goods were up \$3.7 billion or 4.8 percent to \$81.5 billion. The most significant increases were in the primary metals category. New orders for nonferrous metals were up \$1.1 billion or 20.3 percent, while steel orders increased \$1.0 billion or 19.1 percent. Companies reported that significant price increases in steel, aluminum, copper, and precious metals caused much of the increases. The steel industry whose orders were quite volatile in 1979, had reported declines of 3.3 percent and 8.9 percent in November and December. New orders for machinery were also up significantly in January. Both the electrical and nonelectrical sectors reported \$0.8 billion increases.

A sizable decline in new orders occurred in the transportation equipment industries, down \$1.0 billion or 6.0 percent to \$16.3 billion. The drop resulted mostly from a decline in aircraft orders of 19.9 percent. December orders for that industry were up 21 percent from the November level. Without the decline in the transportation industry, new orders for durable goods were up 7.9 percent.

New orders for nondefense capital goods were up \$0.4 billion or 1.6 percent to \$23.2 billion. The large increases in orders for machinery and other transportation equipment were partially offset by the decline in commercial aircraft orders. Defense capital goods orders dropped 5.2 percent, revised from the 2.8 percent decline reported earlier. New orders for the household durable goods industries as a group were up 9.1 percent with virtually all industries contributing to the rise.

Shipments of manufactured goods rose \$5.0 billion or 3.4 percent in January to \$151.3 billion. In the durable goods industries increases were widespread. Primary metals shipments

were up 7.2 percent, mostly attributable to a \$0.6 billion or 11.9 percent increase in the nonferrous industries. Transportation was up 4.0 percent. The automotive industry had its first significant increase in shipments since last May.

Shipments by the nondurable goods industries were up \$1.5 billion or 2.1 percent to \$73.8 billion. Increases in paper, petroleum, rubber and plastics, and leather were partially offset by declines in the food and apparel industries.

The backlog of manufacturers' orders in January rose \$3.8 billion or 1.4 percent to \$282.6 billion. The largest increases occurred in machinery, up \$1.7 billion or 1.8 percent; aircraft, up \$1.4 billion or 1.8 percent; and primary metals, up \$0.9 billion or 3.2 percent. The only declines came from the automotive, fabricated metal products, and shipbuilding industries.

The book value of manufacturers' inventories rose \$4.2 billion or 1.8 percent to \$232.0 billion, the largest 1-month increase since December 1974. The largest increases in the durable goods industries were reported by producers of non-electrical machinery, up \$0.7 billion; aircraft, up \$0.6 billion; and electrical machinery, up \$0.4 billion. Inventories of non-durable goods manufacturers rose \$1.8 billion or 2.3 percent to \$78.3 billion. The inventory to shipments ratio for January dropped to 1.53, the lowest it has been since last July when it also stood at 1.53.

The figures for the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear in the report to be published for next month. Periodically all data are adjusted to benchmark levels as discussed later in the section Description of Survey. The advance report on durable goods for February is scheduled for release on March 21, 1980 and the full report is scheduled for release on April 1, 1980.

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Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

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Table 1.—VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(Billions of dollars)

SIC	Industry	Seasonally adjusted				Quarterly				Without seasonal adjustment ¹												Annual	
		Monthly				Quarterly				Monthly													
		Jan. 1960	Dec. 1959	Nov. 1959	Oct. 1959	IV 1959	III 1959	II 1959	I 1960	Jan. 1960	Dec. 1959	Nov. 1959	Oct. 1959	Jan. 1960	Dec. 1959	Nov. 1959	Oct. 1959	Jan. 1960	Dec. 1959	Nov. 1959	Oct. 1959	1976	1978
ALL MANUFACTURING, DURABLE AND NONDURABLE GOODS, TOTAL																							
151	All manufacturing industries: total.....	151,336	146,384	146,161	145,551	436,076	427,663	415,374	139,232	139,658	143,286	150,754	126,147	126,980	121,499	135,514	1,692,001	1,497,540	1,307,890	1,307,890	1,307,890	1,307,890	1,307,890
152	Total, excluding trans- portation.....	136,005	131,638	129,199	130,056	390,493	380,210	366,661	125,671	125,698	127,976	133,933	107,425	111,303	113,931	117,658	1,497,540	1,307,890	1,307,890	1,307,890	1,307,890	1,307,890	1,307,890
331	Total for industries with un- filled orders.....	79,680	75,950	75,362	76,711	228,003	225,226	220,310	72,863	73,390	74,937	80,447	65,232	68,393	69,655	71,615	893,021	789,416	789,416	789,416	789,416	789,416	789,416
332	Durable goods industries, total.....	77,982	74,118	73,657	75,570	223,345	222,013	219,233	70,114	70,347	72,706	78,660	65,767	68,389	70,662	73,238	887,777	798,957	798,957	798,957	798,957	798,957	798,957
333	Durable goods with unfilled orders.....	64,119	61,536	60,706	62,006	184,246	181,710	177,984	58,379	59,377	60,066	63,949	52,735	55,785	56,351	57,818	722,730	637,127	637,127	637,127	637,127	637,127	637,127
334	Nondurable goods industries, total.....	73,754	72,466	70,684	69,981	212,731	205,450	196,051	69,118	69,311	70,580	72,094	58,380	58,591	60,837	62,276	804,224	698,515	698,515	698,515	698,515	698,515	698,515
335	Nondurable goods with unfilled orders.....	15,361	14,416	14,636	14,709	43,757	43,514	42,326	14,484	14,613	14,871	16,498	12,497	12,608	13,304	13,797	170,291	152,189	152,189	152,189	152,189	152,189	152,189
MARKET CATEGORIES AND SUPPLEMENTAL SERIES																							
Market categories:																							
20	Home goods and apparel.....	11,223	11,123	10,765	10,945	32,833	32,041	30,864	9,886	9,766	11,237	12,189	8,589	8,568	10,415	11,128	125,723	114,567	114,567	114,567	114,567	114,567	114,567
21	Consumer staples.....	25,866	26,469	25,966	25,623	78,238	75,587	73,006	24,203	26,071	26,341	26,830	22,084	23,027	23,516	24,062	298,916	268,337	268,337	268,337	268,337	268,337	268,337
22	Transportation equipment, ex- cept autos.....	21,360	21,089	20,021	20,365	61,656	60,726	57,428	19,105	21,743	19,447	20,714	16,801	18,889	17,655	18,130	236,754	203,025	203,025	203,025	203,025	203,025	203,025
33	Automotive equipment.....	11,382	10,936	11,233	12,121	36,288	35,530	34,260	10,438	9,537	11,482	13,306	13,306	12,022	14,266	14,940	151,020	153,752	153,752	153,752	153,752	153,752	153,752
34	Construction materials, sup- plies, and intermediate products.....	13,614	12,863	12,843	13,068	38,554	37,726	36,661	11,280	11,423	12,543	13,637	9,482	10,790	11,505	11,924	148,806	130,079	130,079	130,079	130,079	130,079	130,079
35	Other materials and supplies, and intermediate products.....	67,901	63,926	63,392	63,429	190,707	185,855	179,175	64,320	61,118	62,216	64,078	53,797	53,484	54,169	55,239	730,782	626,934	626,934	626,934	626,934	626,934	626,934
Supplementary series: ²																							
36	Household durable goods in- dustry.....	4,916	4,716	4,812	4,866	14,614	14,035	13,801	4,385	4,384	4,957	5,485	3,801	4,124	4,356	4,976	55,948	51,453	51,453	51,453	51,453	51,453	51,453
37	Capital goods industries.....	24,088	23,402	22,734	23,100	69,233	68,113	65,167	21,385	24,205	22,436	23,750	17,445	18,700	17,445	18,700	232,315	202,985	202,985	202,985	202,985	202,985	202,985
38	Nondefense.....	20,928	20,223	19,598	20,095	59,916	59,412	56,385	18,888	20,804	19,346	20,355	16,793	18,634	17,733	17,944	232,315	200,895	200,895	200,895	200,895	200,895	200,895
39	Defense.....	3,160	3,179	3,136	3,005	9,320	8,703	8,782	2,783	3,401	3,090	3,061	2,577	3,023	2,702	2,733	35,492	32,512	32,512	32,512	32,512	32,512	32,512
INDUSTRY GROUPS AND INDUSTRIES																							
Durable goods industries:																							
32	Stone, clay, and glass.....	4,581	4,133	4,190	4,244	12,569	12,193	12,046	3,863	3,576	4,132	4,552	3,167	3,389	3,855	4,176	48,185	43,888	43,888	43,888	43,888	43,888	43,888
33	Primary metals.....	366	344	375	372	1,091	982	976	324	354	360	380	287	291	302	321	3,989	3,690	3,690	3,690	3,690	3,690	3,690
331	Primary metals, total.....	12,637	11,787	11,825	12,088	35,700	35,228	34,271	11,873	10,499	11,203	12,073	10,350	10,397	10,467	10,918	140,122	120,390	120,390	120,390	120,390	120,390	120,390
333	Iron and steel mills.....	5,629	5,480	5,746	5,975	17,111	17,312	16,767	5,550	4,927	5,351	5,754	5,186	5,277	5,068	5,445	68,663	60,533	60,533	60,533	60,533	60,533	60,533
333-9	Nonferrous and other primary metals.....	5,768	5,135	4,996	5,081	15,210	16,433	16,134	5,179	4,750	4,809	5,131	4,138	4,103	4,290	4,321	58,001	47,455	47,455	47,455	47,455	47,455	47,455
34	Fabricated metal prod., total.....	9,541	9,211	9,221	9,310	27,742	27,158	27,073	8,593	8,067	9,031	9,683	7,933	8,399	8,489	8,959	109,463	96,212	96,212	96,212	96,212	96,212	96,212
35	Metal cans, barrels, and drums.....	886	809	863	826	2,498	2,444	2,492	725	657	714	806	688	724	694	784	10,964	9,562	9,562	9,562	9,562	9,562	9,562
36	Machinery, except electrical, total.....	19,968	19,462	19,078	19,305	40,445	40,444	39,679	12,845	13,742	12,527	13,911	11,120	12,495	11,686	12,312	157,695	137,119	137,119	137,119	137,119	137,119	137,119
37	Engines and turbines.....	1,186	1,078	1,075	1,265	3,253	3,177	3,148	986	828	986	1,122	870	802	798	1,067	13,258	12,044	12,044	12,044	12,044	12,044	12,044
38	Farm machinery and equipment construction, mining, and material handling equipment.....	2,795	2,705	2,391	2,861	7,937	8,292	7,851	2,627	2,502	2,279	2,799	2,326	2,446	2,428	2,609	31,813	28,274	28,274	28,274	28,274	28,274	28,274
39	Transportation equipment.....	1,466	1,418	1,436	1,434	3,468	3,287	3,171	1,127	1,144	1,096	1,265	954	977	959	1,023	13,265	11,205	11,205	11,205	11,205	11,205	11,205
40	General industrial machinery and equipment.....	1,266	1,118	1,131	1,271	3,414	3,214	3,148	986	828	986	1,122	870	802	798	1,067	13,258	12,044	12,044	12,044	12,044	12,044	12,044

See footnotes at end of table.

Table 1.—VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES.—Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted				Without seasonal adjustment ¹												Annual					
		Monthly				Quarterly				Monthly													
		Jan. 1980 ²	Dec. 1979 ³	Nov. 1979	Oct. 1979	IV 1979	III 1979	II 1979	Jan. 1980 ²	Dec. 1979 ³	Nov. 1979	Oct. 1979	Jan. 1979	Dec. 1978	Nov. 1978	Oct. 1978	1979	1978					
INDUSTRY GROUPS, AND INDUSTRIES—Continued																							
36	Electrical machinery, total...	10,088	9,746	9,495	9,375	28,616	27,685	27,300	9,204	9,720	9,614	9,790	8,128	8,495	8,699	8,967	110,713	98,661					
361,2	Electrical transmission and distribution equipment...																						
363	Household appliances...	1,733	1,592	1,712	1,683	4,987	4,947	5,006	1,624	1,534	1,696	1,720	1,559	1,478	1,506	1,559	19,915	17,632					
365	Radio and TV...	2,406	2,807	2,825	2,792	8,704	8,098	7,646	2,072	2,596	2,698	2,769	2,281	2,593	2,423	2,185	32,153	27,756					
366	Electronic components...	1,198	1,577	1,521	1,507	4,605	4,623	4,426	1,425	1,563	1,557	1,578	1,263	1,308	1,339	1,330	17,820	14,949					
37	Transportation equipment, total...	15,311	14,746	14,942	15,495	45,193	47,253	48,713	13,741	13,940	15,310	16,831	14,527	15,497	17,448	17,858	186,441	188,883					
371	Motor vehicles and parts...	9,013	9,436	10,251	10,251	28,498	30,209	33,216	8,424	8,093	9,838	11,338	11,748	10,566	12,532	12,987	129,364	131,207					
372,6	Aircraft, missiles, and parts...																						
3731	Shipbuilding and military tank vehicles...	3,806	3,790	3,648	3,473	10,911	11,730	10,539	3,115	4,049	3,684	3,607	3,210	3,558	3,404	3,136	43,804	37,542					
3795	Shipbuilding and military tank vehicles...	912	845	754	762	2,361	2,177	2,072	796	946	763	829	602	751	696	706	8,693	7,872					
38	Instruments and related products, total...	3,381	3,247	3,205	3,089	9,541	9,154	8,864	3,064	3,248	3,304	3,242	2,509	2,741	2,841	2,857	36,253	31,560					
381-4	Scientific and engineering...	1,977	1,953	1,839	1,768	5,560	5,301	5,164	1,476	1,928	1,837	1,824	1,526	1,573	1,583	1,591	21,082	18,140					
386	Photographic goods...	1,226	1,104	1,155	1,118	3,375	3,222	3,059	1,024	1,151	1,247	1,181	824	1,018	1,070	1,048	12,757	11,245					
24	All other durable goods	8,059	7,586	7,701	8,062	23,349	22,878	22,357	6,911	6,795	7,585	8,588	6,058	6,595	7,057	7,551	90,885	81,334					
25	Industries...																						
20	Nondurable goods industries: Food and kindred products, total...	19,953	20,729	20,273	20,113	61,115	59,231	57,486	18,872	20,352	20,518	20,883	17,507	18,473	18,547	18,981	234,828	211,911					
201	Food and kindred products...	4,955	5,286	5,215	5,109	15,610	14,895	15,324	4,865	5,292	5,163	5,262	4,990	5,211	5,094	5,201	62,002	57,087					
208	Beverages...	2,583	2,426	2,402	2,328	7,156	6,966	6,788	2,166	2,215	2,438	2,450	1,794	1,979	2,027	2,141	27,659	24,710					
207	Fats and oils...	1,623	1,611	1,623	1,670	4,904	5,068	4,611	1,597	1,558	1,666	1,667	1,542	1,529	1,481	1,504	19,322	16,765					
207-6,9	All other foods...	8,004	8,631	8,270	8,319	25,220	23,989	22,607	7,551	8,554	8,452	8,793	6,778	7,283	7,396	7,614	93,878	84,934					
21	Tobacco products...	1,031	1,027	1,055	1,055	3,137	3,212	2,836	991	1,052	1,078	1,097	991	941	1,014	1,043	12,173	10,941					
22	Textile mill products...	4,340	3,925	3,961	4,039	11,925	11,936	11,757	3,760	3,786	4,059	4,301	3,519	3,491	3,783	3,990	44,992	43,951					
26	Paper and allied products, total...	6,167	5,492	5,585	5,641	16,718	17,016	16,504	5,633	5,156	5,540	5,745	4,737	4,573	5,061	5,157	66,033	57,584					
261-3	Pulp, paper, etc...	2,784	2,623	2,607	2,598	7,913	7,828	7,692	2,488	2,440	2,528	2,485	2,123	2,085	2,201	2,223	30,165	25,343					
265	Paperboard containers...	1,401	1,214	1,240	1,257	3,711	3,650	3,362	1,317	1,110	1,229	1,325	1,110	1,037	1,126	1,205	14,557	13,091					
264	All other paper containers...	1,962	1,655	1,738	1,786	5,179	5,674	5,365	1,848	1,558	1,724	1,735	1,504	1,451	1,734	1,729	21,311	19,220					
28	Chemicals and allied products, total...	13,996	13,710	13,159	12,864	39,733	37,967	36,548	12,449	12,533	12,515	12,759	10,782	10,451	10,704	11,244	149,181	126,445					
281,6	Industrial chemicals, except pigments...	4,821	4,598	4,687	4,454	13,739	13,372	12,687	4,900	4,331	4,425	4,312	3,777	3,671	3,535	3,605	51,793	42,415					
283,4	Drugs, soap, and toiletries...	3,561	3,761	3,389	3,389	10,625	10,270	9,737	3,246	3,502	3,406	3,603	2,961	2,875	2,932	3,093	40,147	34,101					
29	Petroleum and coal products...	13,773	13,279	12,803	12,419	38,501	35,143	31,246	13,662	13,469	12,779	12,302	9,232	9,464	9,074	8,899	136,041	103,582					
30	Rubber and plastics products, net...	4,076	3,589	3,618	3,774	10,981	11,262	11,148	3,980	3,279	3,552	3,947	3,337	3,021	3,461	3,642	44,742	39,930					
31	All other nondurable goods	10,610	10,515	10,030	10,076	30,621	29,703	28,528	9,453	9,664	10,559	11,060	8,255	8,204	9,462	9,859	116,234	104,107					
32	Industries...																						

¹Suppliers and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unrolled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries—The capital goods industries series is comparable to the previous Producers' Capital goods and the Defense Products (old series) categories. Nondefense production and inventory, except electrical (excluding farm machinery and equipment and machine shops); electrical machinery (excluding household appliances, radio and TV and electronic components); and the Defense products—based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the M-175, Shipments of Defense-Oriented Industries, for the specified industries.

Table 2.--VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES

See footnotes at end of table.

Table 2.--"VALUE OF MANUFACTURES" NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued
(Millions of dollars)

SIC	Industry	Seasonally adjusted					Without seasonal adjustment ¹					Annual						
		Monthly					Quarterly					Yearly						
		Last 4 months					Last 4 months					Last 4 months (a year ago)						
		Jan. 1980 ²	Feb. 1979 ²	Nov. 1979	Oct. 1979	IV 1979	III 1979	II 1979	Jan. 1980 ²	Feb. 1979 ²	Nov. 1979	Oct. 1979	Jan. 1979	Dec. 1978	Nov. 1978	Oct. 1978	1979	1978
INDUSTRY GROUPS AND INDUSTRIES--Continued																		
36	Electrical machinery, total...	10,818	10,073	9,720	9,661	29,454	28,496	28,639	9,985	9,837	9,387	10,067	8,834	9,026	8,713	9,377	115,785	103,216
361,2	Electrical transmission and distribution equipment and apparatus...	1,698	1,660	1,705	1,782	5,147	5,048	5,382	1,645	1,519	1,644	1,795	1,747	1,608	1,565	1,678	20,653	18,356
363	Household appliances...	1,267	1,132	1,108	1,116	3,354	3,123	3,208	1,091	1,037	1,000	1,115	921	942	891	1,060	12,095	12,095
365	Radio and TV...	625	561	572	531	1,484	1,489	1,913	477	587	622	466	509	572	572	572	39,277	39,277
366	Communication equipment...	3,315	3,254	2,921	2,901	9,076	8,365	8,003	3,168	3,282	2,693	3,166	2,499	2,783	2,421	2,838	36,077	36,077
367	Electronic components...	1,992	1,768	1,658	1,845	5,271	5,056	5,080	1,839	1,660	1,614	1,666	1,614	1,477	1,504	1,481	20,416	16,655
37	Transportation equipment, total...	16,349	17,390	16,341	15,686	49,417	50,427	34,927	15,510	16,030	16,361	19,261	18,843	16,973	21,112	23,122	216,523	210,419
372,6	Aircraft, missiles, and spacecraft...	5,236	6,537	5,405	3,944	15,886	14,879	17,101	5,066	6,286	5,158	6,338	4,737	4,427	6,881	6,183	65,796	53,505
3731	Ships, boats, and military tank vehicles...	796	1,060	749	732	2,561	2,370	2,031	856	989	700	955	605	475	308	2,606	8,964	9,246
3795	Trucks, trailers, and related products...	3,614	3,340	3,198	3,173	9,711	9,336	9,083	3,241	3,359	3,244	3,290	2,621	2,314	2,832	2,946	37,149	32,454
38	All other durable goods industries...	8,213	7,806	7,609	8,144	23,359	22,749	22,559	6,983	6,649	7,370	8,518	6,133	6,426	7,248	7,248	91,170	81,407

¹ Preliminary.

² Data are for the period and are adjusted for trading-day and calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances, radio and TV, electronic goods, watches, and clocks and miscellaneous personal goods.

Capital goods industries - The capital goods industries is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories.

Nondefense products-machinery, except electrical (excluding farm machinery and equipment and machine shops); electrical machinery (excluding household appliances, radio and TV and electronic components); and the defense products-machinery, except electrical (excluding aircraft, missiles, and spacecraft).

Defense products-based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, arms and ammunition; communications equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the WA-175, Shipments of Defense-Oriented Industries, for the specified industries.

Table 3.--VALUE OF MANUFACTURES: UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES

(Billions of dollars)

SIC	Industry	Seasonally adjusted										Without seasonal adjustment ¹									
		Monthly					Quarterly					Monthly									
		1979					1979					1979									
		Jan.	Nov.	Dec.	Oct.	III	II	I	IV	III	Sum.	Dec.	Oct.	Dec.	Jan.	Dec.	Nov.	Oct.	Nov.	Dec.	Oct.
		1980 ²	1979	1979	1979	1979	1979	1979	1978	1978	1980	1979	1979	1979	1979	1978	1978	1978	1978	1978	1978
ALL MANUFACTURING, DURABLE AND NONDURABLE GOODS, TOTAL																					
All manufacturing industries:																					
Total, including trans- portation.....		282,642	278,846	275,471	273,047	271,864	269,086	259,167	238,452	224,248	282,690	277,153	274,721	273,707	245,032	237,134	233,600	229,031	229,031		
Durable goods industries, total.....		178,878	176,099	175,370	174,347	173,460	173,753	170,129	157,742	150,661	177,499	173,713	173,347	173,363	161,336	155,758	153,520	151,496	151,496		
Nondurable goods industries, total.....		270,980	267,071	263,435	263,679	260,576	258,457	246,839	228,181	214,101	271,182	265,777	265,015	265,521	234,957	228,975	223,466	219,003	219,003		
Market categories:																					
Home goods and apparel.....		4,362	4,465	4,767	4,983	5,001	4,771	4,108	4,613	4,261	4,223	4,515	4,907	4,980	3,906	4,112	4,467	4,467	4,467		
Consumer staples.....		156,788	154,691	152,163	150,500	150,430	148,905	144,864	134,669	125,074	157,908	155,241	153,125	152,182	137,083	134,991	133,239	130,419	130,419		
Automotive equipment.....		20,505	20,772	20,699	20,761	21,037	21,116	20,955	20,195	19,746	20,522	20,648	20,411	20,648	20,330	20,069	19,619	19,804	19,804		
Construction materials, sup- plies, and intermediate goods for construction.....		100,787	98,845	97,039	95,516	94,086	88,497	79,480	72,935	99,999	97,041	94,670	95,970	83,529	76,168	76,330	74,341	74,341	74,341		
Supplementary series: ²																					
Household durable goods indus- tries.....		3,568	3,468	3,663	3,914	4,000	3,915	3,367	3,786	3,267	3,199	3,385	3,780	3,935	3,193	3,238	3,639	3,639	3,639		
Capital goods.....		181,768	179,055	175,814	173,127	172,199	167,418	164,187	154,287	147,887	187,708	179,566	177,334	175,209	161,090	152,726	148,437	145,701	145,701		
Nondefense.....		131,857	128,925	127,107	126,199	125,463	119,730	106,225	97,248	131,567	128,800	128,695	127,063	126,167	103,906	103,906	101,701	101,701	101,701		
Defense.....		47,912	47,492	46,893	46,010	46,000	45,138	44,588	43,563	39,499	48,673	47,789	47,342	46,658	44,035	43,785	42,657	41,197	41,197		
INDUSTRY GROUPS AND INDUSTRIES																					
Durable goods industry:																					
Stone, clay and glass.....		2,971	2,904	2,880	2,928	3,096	3,009	2,832	2,943	2,737	2,950	2,778	2,792	2,852	2,872	2,816	2,635	2,707	2,707		
Primary metals, total.....		30,550	29,407	29,081	30,253	30,024	31,902	31,463	28,738	28,864	30,379	28,737	28,534	28,806	29,124	28,980	28,437	28,437	28,437		
Blas furnaces, steel mills, nonferrous and other primary metal products.....		18,004	17,690	18,181	18,450	18,080	20,930	20,982	17,179	16,311	17,770	17,071	17,344	17,491	19,000	16,612	16,425	16,012	16,012		
Fabricated metal products.....		9,855	9,295	9,187	9,193	8,833	8,445	8,115	7,443	6,729	9,835	9,063	8,608	8,743	7,912	7,264	6,613	6,743	6,743		
Machinery, except electrical, total.....		28,062	28,257	27,828	28,013	27,818	27,970	27,632	28,094	23,144	28,034	28,193	27,836	28,108	26,605	26,034	25,365	25,526	25,526		
Electrical and electronic equip- ment.....		59,671	58,729	58,260	57,524	57,223	57,296	56,565	53,037	50,860	59,326	58,343	58,279	57,711	53,732	52,726	52,441	51,855	51,855		
Transportation equipment.....		16,842	16,667	16,709	16,689	16,747	16,896	15,963	16,649	16,380	16,874	16,828	16,714	16,832	16,706	16,809	16,555	16,661	16,661		
Material handling equip- ment.....		8,687	8,449	8,199	8,275	7,977	7,993	8,078	7,957	7,624	8,660	8,336	8,125	8,175	8,117	7,869	7,723	7,596	7,596		
Metallurgical machinery.....		7,659	7,072	6,975	6,922	6,756	6,599	6,300	4,738	7,347	7,114	7,093	6,984	5,280	5,125	5,083	4,859	4,859	4,859		
General industrial machinery		7,198	7,098	7,251	7,181	7,210	7,249	7,054	6,840	6,730	7,140	7,027	7,193	7,195	6,801	6,778	6,961	6,872	6,872		

See footnotes at end of table.

Table 3.—VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES—Continued

(Billions of dollars)

SIC	Industry group	Seasonally adjusted				Quarterly				Monthly				Without seasonal adjustment ¹			
		Monthly				Quarterly				Monthly				Without seasonal adjustment ¹			
		Jan. 1967 ²	Dec. 1967 ²	Nov. 1979	Oct. 1979	III 1979	II 1979	I 1979	IV 1978	III 1978	Dec. 1979	Jan. 1979	Nov. 1978	Oct. 1979	Jan. 1979	Nov. 1978	
		INDUSTRY GROUPS AND INDUSTRIES—continued															
36	Electrical machinery, total.....	36,300	35,552	35,224	35,002	36,715	35,066	32,869	30,227	29,094	35,765	35,148	34,301	33,898	33,201	32,852	
361.2	Electrical transmission and distribution equipment.....																
	Industrial apparatus.....	7,498	7,533	7,465	7,474	7,276	7,175	6,900	6,777	6,543	7,424	7,438	7,253	6,873	6,685	6,580	
363	Household appliances.....	329	338	372	379	408	435	445	423	481	387	310	338	348	392	344	
365	Radio and TV.....	16,651	16,137	15,969	15,875	15,765	15,489	15,132	14,206	13,595	16,777	16,709	16,111	15,406	14,733	14,588	
367	Electronic components.....	10,529	10,235	10,064	9,907	9,869	9,186	8,532	7,587	6,785	10,255	10,040	9,444	8,487	7,704	7,399	
37	Transportation equipment.....	103,764	102,747	100,101	98,700	98,506	95,333	89,138	80,910	71,727	105,191	103,440	101,276	93,880	81,376	79,553	
372.6	Aircraft, missiles, and parts.....	79,321	77,893	75,144	73,386	72,916	69,763	63,199	56,098	49,867	80,762	78,810	76,575	68,139	56,813	54,947	
3731	Shipbuilding and military tank vehicles.....	11,163	11,279	11,065	11,069	11,098	10,906	10,967	11,005	9,983	11,145	11,094	11,003	10,798	10,795	11,000	
38	Instruments and related products.....	6,225	5,992	5,898	5,805	5,823	5,660	5,423	5,091	4,771	6,344	5,967	5,857	5,316	5,021	4,849	
39	All other durable goods industries.....	3,437	3,383	3,263	3,235	3,271	3,401	3,347	2,559	2,425	3,326	3,054	3,197	2,884	2,771	2,586	
	Preliminary.....																

¹Revised.²Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventory are at the end of the period and are not adjusted for trading-day or calendar-month variations.³The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods—industries—household furniture; kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radii, and TV; communications—radio and clock; and electrical and electronic personal goods—industries—The capital goods industries series is comparable to the previous Producer's Capital Goods and the Defense Products (old series) categories.

Non-defense products—Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radii, and TV), and electrical components—the non-defense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products—Based on separate reports on defense work filled by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the 100-15, Shipments of Defense-Related Industries, for the specified industries.

Beginning in 1976, the fiscal year for the Federal Government probably affected the weighting of contracts and other financial arrangements. Although the impact of this change is not known, the year of previously established seasonal factors would have substantially distorted the current data since the fiscal year for the Federal Government is not the same as the calendar year. The revised calendar quarters one quarter preceding the end of the fiscal year. These comparisons could not be made for nondefense industries where applied to the unfilled orders data for each of the separately tabulated defense industries. This adjustment also modified the new orders data. Standardizations could not be made for nondefense industries where since such data are not compiled separately. This method of calculating the seasonal factors will be used until a sufficient amount of data are available to assess the impact of the change in the fiscal year on the seasonal pattern of the defense industries.

Table 4.—VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES—Continued

SIC	Industry	(Millions of dollars)												
		Seasonally adjusted						Without seasonal adjustment ¹						
		Monthly			Quarterly			Monthly			Last 4 months (a year ago)			
		Jan. 1960 ²	Dec. 1959	Nov. 1959	III 1959	II 1959	I 1959	IV 1958	III 1958	Dec. 1958 ³	Nov. 1958	Oct. 1958	Nov. 1957	Oct. 1957
		Jan. 1960 ²	Dec. 1959	Nov. 1959	III 1959	II 1959	I 1959	IV 1958	III 1958	Dec. 1958 ³	Nov. 1958	Oct. 1958	Nov. 1957	Oct. 1957
INDUSTRY GROUPS AND INDUSTRIES														
20,999	Electrical machinery, total.....	20,585	20,013	19,817	19,486	18,734	18,066	17,066	17,032	20,261	19,804	16,410	16,404	16,821
361,2	Electrical transmission and distribution equipment.....	3,753	3,767	3,730	3,632	3,524	3,365	3,268	3,163	3,712	3,691	3,591	3,524	3,591
363	Household appliances.....	2,098	2,106	1,989	1,982	1,956	2,025	1,934	2,024	2,070	2,014	1,896	1,894	1,898
364	Radio and TV.....	1,076	1,042	959	958	963	984	1,013	1,005	1,008	954	955	945	948
366	Communication equipment.....	7,402	6,896	6,758	6,595	6,431	6,129	5,833	5,411	5,741	5,693	5,336	5,336	5,381
367	Electronic components.....	3,118	3,066	2,988	2,977	2,897	2,734	2,508	2,531	3,100	2,976	2,645	2,645	2,646
37	Transportation equipment, total.....	29,881	30,118	29,465	28,534	27,390	25,717	24,131	23,714	29,511	30,216	29,673	29,107	29,440
371	Motor vehicles and parts.....	7,867	7,972	8,639	8,894	8,811	8,857	7,767	8,500	8,118	7,980	8,143	8,143	8,146
372	Aircraft, missiles, and spacecraft.....	18,041	17,400	16,883	16,169	15,461	14,696	13,176	12,593	17,102	16,883	16,137	16,137	16,137
3731	Shipyards and military tank vehicles.....	2,116	2,180	2,265	2,116	2,064	1,675	1,717	1,775	2,062	2,221	2,104	2,104	2,104
3795	Instruments and related equipment.....	8,048	7,713	7,595	7,491	7,456	7,336	6,408	6,282	8,041	7,580	6,467	6,467	6,311
381-4	Scientific and engineering equipment.....	2,222	1,971	1,914	1,910	1,926	2,031	1,982	1,752	2,184	1,855	1,757	1,757	1,757
24	All other durable goods.....	12,048	11,934	11,993	11,870	11,734	11,606	11,269	11,014	10,493	12,078	11,715	11,715	11,715
25	Non-durable goods Industries	20,308	20,126	19,982	19,871	19,856	19,106	18,119	17,262	21,115	21,036	19,767	19,767	19,767
20	Food and kindred products, total.....	1,957	1,957	1,957	1,957	1,957	1,957	1,957	1,957	1,957	1,957	1,957	1,957	1,957
201	Wheat products.....	3,755	3,869	3,756	3,688	3,679	3,684	3,478	3,453	3,823	3,830	3,765	3,765	3,765
208	Beverages.....	1,912	1,888	1,860	1,867	1,704	1,605	1,598	1,437	1,384	2,115	2,161	2,161	2,161
207	Fats and oils.....	10,980	10,875	10,875	10,814	11,070	10,590	9,896	9,308	9,111	11,594	11,538	11,538	11,538
203-4-8	All other foods.....	3,576	3,523	3,605	3,693	3,746	3,716	3,586	3,619	3,469	3,791	3,727	3,727	3,727
21	Tobacco products.....	5,923	5,868	5,795	5,746	5,686	5,645	5,718	5,606	5,411	5,694	5,611	5,611	5,611
22	Textile mill products.....	6,864	6,779	6,615	6,538	6,422	6,164	6,045	5,875	6,880	6,722	6,596	6,596	6,596
26	Paper and allied products, total.....	2,246	2,321	2,258	2,198	2,137	2,090	2,053	2,006	2,343	2,313	2,178	2,178	2,178
261-3	Pulp, paper, etc.....	1,353	1,353	1,353	1,353	1,353	1,353	1,353	1,353	1,353	1,353	1,353	1,353	1,353
264	All other paper containers.....	2,559	2,559	2,559	2,559	2,559	2,559	2,559	2,559	2,559	2,559	2,559	2,559	2,559
28	Chemicals and allied products, total.....	17,827	16,978	16,847	16,620	16,582	15,901	15,548	15,429	18,195	17,280	16,832	16,832	16,832
281-6	Industrial chemicals, except drugs, soap, and toiletries.....	5,978	5,277	5,038	5,071	4,977	4,482	4,391	4,590	5,396	5,396	5,396	5,396	5,396
283,4	Drugs, soap, and toiletries.....	5,127	5,117	5,139	5,281	5,427	5,176	4,992	4,958	5,107	5,107	5,107	5,107	5,107
29	Petroleum and coal products.....	7,028	6,660	6,527	6,400	6,334	5,367	5,001	5,423	7,059	6,816	6,686	6,686	6,686
30	Rubber and plastics products, n.e.c.....	4,803	4,750	4,797	4,818	4,962	4,870	4,707	4,602	4,912	4,804	4,703	4,703	4,703
31	All other nondurable goods industries.....	11,944	11,615	11,732	11,882	11,710	11,710	11,525	10,939	10,773	11,605	11,469	11,469	11,469

¹ Preliminary.

² Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day and calendar-month variations.

The supplementary series are groupings of the separate industry categories as follows:

Household durable goods industries: Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household appliances, radio and TV, optical goods, watches, and clocks, and miscellaneous personal goods.

Capital goods industries: The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories. It includes machinery and equipment and machine shops, electrical machinery (excluding household appliances, radio and TV and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment.

Defense products: Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the WA-175, Shipments of Defense-Ordered Industries, for the specified industries.

Table 6.--MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGES

(Based on seasonally adjusted data)

Item and industry group	Month-to-month			Average monthly rates of change				Average, 1975-1979	
	Dec.- 1979 Jan. 1980	Nov.- Dec. 1979	Oct.- Nov. 1979	3 months			12 months Jan. 1979 Jan. 1980	Average rise	Average decline
				Oct. 1979- Jan. 1980	July- Oct. 1979	April- July 1979			
Shipments:									
All manufacturing industries.....	+3.4	+1.6	-1.0	+1.3	+0.9	+1.9	+1.0	+1.7	-1.3
Durable goods industries, total.....	+4.7	+0.6	-2.5	+0.9	+0.9	+1.3	+0.6	+2.0	-2.0
Nondurable goods industries, total.....	+2.1	+2.5	+0.7	+1.8	+0.9	+2.6	+1.4	+1.6	-0.7
Total inventories:									
All manufacturing industries.....	+1.8	+0.8	+1.2	+1.3	+1.0	+1.1	+1.2	+0.7	-0.3
New orders:									
All manufacturing industries.....	+3.6	+2.2	-0.0	+1.9	+1.4	+0.3	+0.8	+2.0	-1.5
Durable goods industries, total.....	+4.8	+3.1	-1.6	+2.1	+1.9	-1.6	+0.3	+3.3	-1.9
Nondurable goods industries, total.....	+2.3	+1.2	+1.7	+1.7	+1.0	+2.5	+1.5	+1.6	-0.7
Unfilled orders:									
Durable goods industries, total.....	+1.5	+1.4	+0.7	+1.2	+0.5	+0.4	+1.2	+1.3	-0.8

Table 7.--RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Jan.- 1980	Dec.- 1979	Nov.- 1979	Oct.- 1979	Jan.- 1980	Dec.- 1979	Nov.- 1979	Oct.- 1979
All manufacturing industries, total.....	1.53	1.56	1.57	1.54	3.55	3.67	3.66	3.56
Durable goods industries, total.....	1.98	2.04	2.04	1.96	4.22	4.34	4.34	4.22
Stone, clay, and glass products.....	1.24	1.35	1.34	1.30	0.70	0.77	0.75	0.76
Primary metals.....	1.58	1.69	1.64	1.58	2.42	2.51	2.54	2.50
Fabricated metals.....	2.03	2.09	2.08	2.02	3.24	3.36	3.33	3.30
Machinery, except electrical.....	2.67	2.67	2.78	2.59	4.65	4.71	4.83	4.50
Electrical machinery.....	2.08	2.11	2.11	2.11	3.60	3.65	3.71	3.73
Transportation equipment.....	1.99	2.03	2.02	1.90	12.46	12.59	12.48	11.90
Instruments and related products.....	2.38	2.38	2.37	2.43	1.84	1.85	1.84	1.91
Nondurable goods industries, total.....	1.06	1.06	1.08	1.08	0.75	0.82	0.82	0.77
Food and kindred products.....	1.02	0.98	0.99	0.98	(X)	(X)	(X)	(X)
Tobacco products.....	3.40	3.43	3.42	3.50	(X)	(X)	(X)	(X)
Textile mill products.....	1.43	1.49	1.46	1.42	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.12	1.23	1.18	1.16	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.27	1.24	1.28	1.29	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.51	0.50	0.51	0.52	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.18	1.32	1.33	1.28	(X)	(X)	(X)	(X)

(NA) Not available. P Preliminary. R Revised. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976 and issued in the report M3-1.7 released in March 1978. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973 in the M3-1.6 benchmark publication released in December 1976.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



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CURRENT INDUSTRIAL REPORTS

Manufacturers' Shipments, Inventories, and Orders



143-1 (80)2

M3-1 (80)2

FEBRUARY 1980

M3-1 (80)-2

For release 2:30 P.M. Tuesday, April 1, 1980

U.S. Department of Commerce
BUREAU OF THE CENSUS

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in February declined \$0.9 billion or 0.6 percent to \$155.2 billion the Department of Commerce, Bureau of the Census reported today. This decline followed an increase of 4.3 percent in January, when the volume was \$156.1 billion.

New orders reported by the durable goods industries were unchanged from the January level of \$82.0 billion. This revised downward the earlier reported 0.7 percent increase for February. Most of the major durable goods industry groups reported declines: nonelectrical machinery was down \$0.7 billion or 4.5 percent; primary metals, down \$0.4 billion or 3.0 percent; stone, clay, and glass products, down \$0.2 billion or 4.9 percent; and transportation equipment, down \$0.2 billion or 1.3 percent.

Within the primary metals category, the nonferrous industries reported a drop in orders of \$0.6 billion or 9.0 percent to \$6.0 billion, following a 26 percent increase in January. The nonferrous orders have been fluctuating the last few months due to the instability of prices in copper and precious metals. The nonferrous decline was partially offset by a \$0.3 billion or 4.9 percent increase in steel orders. This is the second consecutive month steel orders have been strong, following substantial order declines during most of 1979.

The decreases in new orders for nonelectrical machinery industries, down \$0.7 billion or 4.5 percent to \$14.3 billion, were widespread with 9 of the 11 industry categories declining. New orders for transportation equipment declined \$0.2 billion or 1.3 percent to \$16.6 billion. Declines of \$0.9 billion in aircraft orders and \$0.4 billion in railroad equipment orders were partially offset by a \$1.0 billion increase in the motor vehicle industry, where the automotive assembly portion of that industry's new orders are considered equal to shipments made during the month. The only significant increases in durable goods new orders came from fabricated metal producers, up \$1.1 billion or 11.7 percent to \$10.3 billion and electrical machinery manufacturers, up \$0.3 billion or 2.9 percent to \$11.2 billion.

New orders for nondefense capital goods showed a sharp decline in February, down \$2.0 billion or 8.2 percent. The decline resulted primarily from decreases in the commercial aircraft and nonelectrical machinery industries. In contrast, defense capital goods orders were up 7.7 percent or \$0.3 billion,

with the communication equipment and shipbuilding industries reporting the largest increases.

Shipments of all manufactured products increased \$0.7 billion or 0.5 percent to \$152.6 billion in February. Durable goods shipments were up more significantly, increasing \$1.6 billion or 2.0 percent to \$79.4 billion. Automotive shipments, up \$0.5 billion or 5.6 percent, and machinery shipments, up \$0.6 billion or 2.4 percent, accounted for most of the increase. Although the automotive industry has reported large increases the last 2 months, the \$9.9 billion February volume of shipments is well below the high for the industry of \$12.6 billion in January 1979.

Shipments from the nondurable goods industries dropped in February \$0.9 billion or 1.2 percent to \$73.2 billion. This is the largest decline reported since April 1979 when the shipments dropped 3.8 percent, due to the truckers' strike, and the 1.8 percent decline of January 1978 when weather was a factor. The largest declines in shipments of nondurable goods occurred in the paper, printing, chemicals, and rubber and plastics industries.

The value of manufacturers' unfilled orders for February increased \$2.6 billion or 0.9 percent to \$285.7 billion. Most industries which carry backlog information reported increases. Exceptions were railroad equipment which dropped 7.1 percent, shipbuilding down 0.9 percent, and nonelectrical machinery whose backlog remained unchanged from the January level of \$59.8 billion. The backlog of aircraft industry orders continued to climb, up \$1.0 billion or 1.2 percent to \$80.7 billion.

The book value of manufacturers' inventories increased \$2.5 billion or 1.1 percent to \$234.5 billion. The value of durable goods inventories increased \$1.4 billion or 0.9 percent to \$155.2 billion, with the machinery, steel, and aircraft industries contributing to most of the increase. The value of inventories of nondurable goods increased \$1.1 billion or 1.5 percent to \$79.3 billion. This follows a January increase of 2.3 percent for nondurable goods.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for March is scheduled for release on April 22, 1980 and the full report is scheduled for release on April 30, 1980.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by the Subscriber Services Section (Publications), Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamp not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price 30 cents per copy, \$3.60 per year.

Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS BY INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)											
		Seasonally adjusted					Without seasonal adjustment ¹						
		Monthly					Quarterly				Total		
		Last 5 months					Last 4 months						
		Feb. 1960 ²	Jan. 1960 ²	Dec. 1959	Nov. 1959	IV 1959	III 1959	II 1959	Feb. 1960 ²	Jan. 1960 ²		Dec. 1959	Nov. 1959
INDUSTRY GROUPS AND INDUSTRIES--Continued													
36	Electrical machinery, total...	10,438	10,093	9,746	9,495	28,616	27,685	27,490	10,576	9,614	9,101	8,118	110,713
361,2	Electrical transmission and distribution equipment and material...	1,778	1,716	1,592	1,271	4,987	4,902	5,006	1,901	1,496	1,237	1,078	18,811
365	Household appliances...	1,162	1,195	1,108	1,084	3,496	3,308	3,162	1,163	1,064	1,093	859	7,744
366	Radio and TV...	693	612	585	580	1,745	1,786	2,072	697	606	648	671	7,744
367	Communication equipment...	3,119	2,805	3,087	2,825	8,704	8,088	7,646	3,131	2,598	2,736	2,403	17,664
368	Electronic components...	1,807	1,680	1,577	1,521	4,465	4,423	4,426	1,468	1,363	1,557	1,098	17,664
37	Transportation equipment...	15,907	15,437	14,746	14,942	45,183	47,533	48,713	16,266	13,853	15,110	12,759	188,851
371	Motor vehicles and parts...	9,902	9,481	9,013	9,434	28,698	30,209	33,216	10,262	8,812	9,496	11,454	129,364
372,6	Aircraft, missiles, and space vehicles...	3,828	3,476	3,790	3,648	10,911	11,730	10,539	3,985	3,439	3,883	3,110	43,804
3731	Shipbuilding and military tank vehicles...	878	878	845	794	2,361	2,177	2,072	787	763	694	621	37,284
3795	Instruments and related equipment...	3,642	3,369	3,247	3,105	9,541	9,156	8,864	3,009	2,696	2,769	2,507	31,409
381	Scientific and engineering...	2,016	1,941	1,953	1,819	5,560	5,401	5,184	2,016	1,841	1,617	1,655	18,109
386	Photographic goods...	1,418	1,239	1,104	1,153	3,375	3,222	3,089	1,312	1,034	1,047	924	12,757
24	All other durable goods industries...	8,185	7,966	7,586	7,701	23,469	24,978	24,357	7,841	6,832	7,585	6,268	81,135
20	Food and kindred products...	20,087	19,986	20,779	20,273	61,115	59,431	57,486	20,270	18,903	19,137	17,307	111,411
201	Wheat products...	4,991	4,837	5,246	5,402	12,435	12,135	11,855	4,975	4,750	5,163	5,092	47,411
202	Grain and oilseed products...	1,670	1,625	1,611	1,623	4,900	4,788	4,753	1,723	1,711	1,779	1,744	17,211
203-6,9	Fats and oils...	10,861	8,198	8,631	8,270	43,889	42,607	41,878	11,403	10,442	10,883	9,778	86,789
21	Tobacco products...	1,116	1,084	1,037	1,035	3,117	3,131	3,246	1,081	1,002	982	941	11,175
22	Textile mill products...	4,192	4,203	3,975	3,981	11,825	11,536	11,757	4,265	3,786	4,079	3,637	41,141
26	Paper and allied products...	5,796	5,604	5,492	5,385	16,718	17,016	16,590	5,898	5,350	5,379	4,737	51,554
261-3	Pulp, paper, etc...	1,365	1,385	1,234	1,260	3,711	3,650	3,623	1,366	1,302	1,259	1,182	19,117
262	Printing and publishing...	1,658	1,632	1,655	1,738	5,179	5,274	5,365	1,744	1,820	1,724	1,552	17,411
28	Chemicals and allied products...	13,561	14,075	13,710	13,159	39,733	37,967	36,548	13,932	12,918	11,706	10,425	124,515
281	Industrial chemicals, except pigments...	4,886	4,892	4,598	4,687	13,739	13,172	12,687	5,076	4,638	4,625	4,153	41,311
281,4	Drugs, soap, and toiletries...	3,477	3,557	3,761	3,475	10,625	10,700	9,937	3,707	3,448	3,698	3,401	36,111
29	Petroleum and coal products...	14,080	13,918	13,479	12,891	38,931	35,143	34,248	14,383	13,827	14,779	14,181	134,111
30	Rubber and plastics products...	3,747	4,054	3,589	3,618	10,981	11,526	11,448	3,806	3,677	3,829	3,437	39,435
33	All other non-durable goods industries...	10,549	10,777	10,515	10,490	31,621	29,710	28,578	10,661	9,596	8,992	8,259	116,354

Preliminary.

Revised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and its not adjusted for trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances, radio and TV; athletic goods, bicycles, and clocks; and miscellaneous personal goods.
 Nondefense products--The capital goods industries series is comparable to the previous "Products", Capital goods and the defense products (old series) categories.
 Defense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.
 Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MA-175, Shipments of Defense-oriented Industries, for the specified industries.

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See footnotes at end of table.

Table 2. --VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued

Preliminary.

...students and new orders are

of $\mathcal{R}(\mathcal{M}_1, \mathcal{M}_2)$ is called the *relative variance*.

²The supplementary series are regrouped of the separate industry categories as follows:

TABLE 3. BALANCE OF TRADES, 1953-54 (continued) (in million rubles)

IC	Imports	Exports										Imports									
		1953-54										1952-53									
		1953	1954	1953	1954	1953	1954	1953	1954	1953	1954	1953	1954	1953	1954	1953	1954				
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1911-1912 and 1913-1914

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Manufacture of goods

Manufacture of goods

Industries	1911-1912				1912-1913				1913-1914				1914-1915				1915-1916				1916-1917				1917-1918				1918-1919				1919-1920				1920-1921				1921-1922				1922-1923				1923-1924				1924-1925				1925-1926				1926-1927				1927-1928				1928-1929				1929-1930				1930-1931				1931-1932				1932-1933				1933-1934				1934-1935				1935-1936				1936-1937				1937-1938				1938-1939				1939-1940				1940-1941				1941-1942				1942-1943				1943-1944				1944-1945				1945-1946				1946-1947				1947-1948				1948-1949				1949-1950				1950-1951				1951-1952				1952-1953				1953-1954				1954-1955				1955-1956				1956-1957				1957-1958				1958-1959				1959-1960				1960-1961				1961-1962				1962-1963				1963-1964				1964-1965				1965-1966				1966-1967				1967-1968				1968-1969				1969-1970				1970-1971				1971-1972				1972-1973				1973-1974				1974-1975				1975-1976				1976-1977				1977-1978				1978-1979				1979-1980				1980-1981				1981-1982				1982-1983				1983-1984				1984-1985				1985-1986				1986-1987				1987-1988				1988-1989				1989-1990				1990-1991				1991-1992				1992-1993				1993-1994				1994-1995				1995-1996				1996-1997				1997-1998				1998-1999				1999-2000				2000-2001				2001-2002				2002-2003				2003-2004				2004-2005				2005-2006				2006-2007				2007-2008				2008-2009				2009-2010				2010-2011				2011-2012				2012-2013				2013-2014				2014-2015				2015-2016				2016-2017				2017-2018				2018-2019				2019-2020				2020-2021				2021-2022				2022-2023				2023-2024				2024-2025				2025-2026				2026-2027				2027-2028				2028-2029				2029-2030				2030-2031				2031-2032				2032-2033				2033-2034				2034-2035				2035-2036				2036-2037				2037-2038				2038-2039				2039-2040				2040-2041				2041-2042				2042-2043				2043-2044				2044-2045				2045-2046				2046-2047				2047-2048				2048-2049				2049-2050				2050-2051				2051-2052				2052-2053				2053-2054				2054-2055				2055-2056				2056-2057				2057-2058				2058-2059				2059-2060				2060-2061				2061-2062				2062-2063				2063-2064				2064-2065				2065-2066				2066-2067				2067-2068				2068-2069				2069-2070				2070-2071				2071-2072				2072-2073				2073-2074				2074-2075				2075-2076				2076-2077				2077-2078				2078-2079				2079-2080				2080-2081				2081-2082				2082-2083				2083-2084				2084-2085				2085-2086				2086-2087				2087-2088				2088-2089				2089-2090				2090-2091				2091-2092				2092-2093				2093-2094				2094-2095				2095-2096				2096-2097				2097-2098				2098-2099				2099-2100				2100-2101				2101-2102				2102-2103				2103-2104				2104-2105				2105-2106				2106-2107				2107-2108				2108-2109				2109-2110				2110-2111				2111-2112				2112-2113				2113-2114				2114-2115				2115-2116				2116-2117				2117-2118				2118-2119				2119-2120				2120-2121				2121-2122				2122-2123				2123-2124				2124-2125				2125-2126				2126-2127				2127-2128				2128-2129				2129-2130				2130-2131				2131-2132				2132-2133				2133-2134				2134-2135				2135-2136				2136-2137				2137-2138				2138-2139				2139-2140				2140-2141				2141-2142				2142-2143				2143-2144				2144-2145				2145-2146				2146-2147				2147-2148				2148-2149				2149-2150				2150-2151				2151-2152				2152-2153				2153-2154				2154-2155				2155-2156				2156-2157				2157-2158				2158-2159				2159-2160				2160-2161				2161-2162				2162
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Table 6.--MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND 12-MONTH PERCENT CHANGES

(Based on seasonally adjusted data)

Item and industry group	Month-to-month			Average monthly rates of change				Average, 1975-1979	
	Jan.- Feb. 1980	Dec.- 1979 Jan.- 1980	Nov.- 1979	3 months			12 months Feb. 1979 Feb. 1980	Average rise	Average decline
				Nov. 1979- Feb. 1980	Aug.- Nov. 1979	May Aug. 1979			
Shipments:									
All manufacturing industries.....	+0.5	+3.8	+1.6	+2.0	+0.4	+0.1	+1.0	+1.7	-1.3
Durable goods industries, total.....	+2.0	+5.0	+0.6	+2.5	-0.3	-0.6	+0.7	+2.0	-2.0
Nondurable goods industries, total.....	-1.2	+2.5	+2.5	+1.3	+1.1	+0.8	+1.4	+1.6	-0.7
Total inventories:									
All manufacturing industries.....	+1.1	+1.8	+0.8	+1.2	+1.0	+1.2	+1.2	+0.7	-0.3
New orders:									
All manufacturing industries.....	-0.6	+4.3	+2.2	+2.0	+0.9	-0.2	+0.7	+2.0	-1.5
Durable goods industries, total.....	-0.1	+5.5	+3.1	+2.8	+0.7	+1.3	+0.1	+3.3	-1.9
Nondurable goods industries, total.....	-1.1	+2.9	+1.2	+1.0	+1.2	+1.0	+1.3	+1.6	-0.7
Unfilled orders:									
Durable goods industries, total.....	+0.9	+1.6	+1.4	+1.3	+0.8	+0.2	+1.0	+1.3	-0.8

Table 7.--RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Feb.- 1980	Jan.- 1980	Dec.- 1979	Nov.- 1979	Feb.- 1980	Jan.- 1980	Dec.- 1979	Nov.- 1979
All manufacturing industries, total.....	1.54	1.53	1.56	1.57	3.53	3.54	3.67	3.66
Durable goods industries, total.....	1.95	1.98	2.04	2.04	4.17	4.21	4.34	4.34
Stone, clay, and glass products.....	1.36	1.27	1.35	1.34	0.78	0.72	0.77	0.75
Primary metals.....	1.57	1.54	1.69	1.64	2.39	2.34	2.51	2.54
Fabricated metals.....	1.97	2.04	2.09	2.08	3.15	3.24	3.36	3.33
Machinery, except electrical.....	2.62	2.66	2.67	2.78	4.57	4.63	4.71	4.83
Electrical machinery.....	2.06	2.08	2.11	2.11	3.57	3.60	3.65	3.71
Transportation equipment.....	1.93	1.96	2.03	2.02	12.40	12.40	12.59	12.48
Instruments and related products.....	2.23	2.40	2.38	2.37	1.74	1.87	1.85	1.84
Nondurable goods industries, total.....	1.08	1.06	1.06	1.08	0.78	0.75	0.82	0.82
Food and kindred products.....	1.00	1.01	0.98	0.99	(X)	(X)	(X)	(X)
Tobacco products.....	3.10	3.35	3.43	3.42	(X)	(X)	(X)	(X)
Textile mill products.....	1.38	1.42	1.49	1.46	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.23	1.14	1.23	1.18	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.36	1.27	1.24	1.28	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.52	0.50	0.50	0.51	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.31	1.20	1.32	1.33	(X)	(X)	(X)	(X)

(NA) Not available. ^DPreliminary. ^RRevised. (X) Not applicable.¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976 and issued in the report M3-1.7 released in March 1978. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973 in the M3-1.6 benchmark publication released in December 1976.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.

current housing reports

Data on housing vacancies
and housing characteristics

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Manufacturers' Shipments, Inventories, and Orders

MARCH 1980

M3-1(80)-3

For release 2:30 P.M. Wednesday, April 30, 1980



U.S. Department of Commerce
BUREAU OF THE CENSUS

(All figures in text below are in seasonally adjusted current dollars.)

REVISION TO SEASONALLY ADJUSTED SERIES

Revised seasonally adjusted data for 1977-1979, reflecting recomputation of seasonal factors based on data through 1979, are scheduled for publication May 20. The preliminary April durable goods report, scheduled for release on May 21 and the all manufacturing report scheduled for release on June 2, will reflect use of the new seasonal factors and include data for January through March on a comparable basis.

New orders for manufactured goods in March declined \$1.4 billion or 0.9 percent to \$154.1 billion the Department of Commerce, Bureau of the Census reported today. This followed a February decline of 0.5 percent. Most of the decreases occurred in durable goods industries, which in total dropped \$2.7 billion or 3.3 percent to \$79.1 billion. Orders for nondurable goods increased \$1.3 billion or 1.8 percent to \$74.9 billion.

Within the durable goods category, the primary metals and automotive industries reported the sharpest decline. Nonferrous metal orders declined \$0.9 billion or 15.1 percent to \$5.1 billion and steel orders dropped \$0.7 billion or 10.0 percent to \$5.6 billion. New orders for the motor vehicle industry dropped \$1.5 billion or 14.8 percent to \$8.5 billion. For the automotive assembly portion of this industry, new orders directly reflect shipments for the month since no backlog of orders is reported. All of the other transportation equipment categories reported new orders increases. New orders for machinery were up 1.0 percent to \$26.0 billion this month, as an increase of \$0.4 billion or 3.0 percent in the nonelectrical category more than offset a \$0.2 billion or 1.6 percent decline in the electrical group.

In contrast to the drop in total durable goods orders, new orders for the capital goods industries increased. The non-defense industries reported an increase of \$1.4 billion or 6.3 percent to \$23.5 billion, reflecting the increases in the non-automotive transportation equipment industries and in non-electrical machinery. New orders for defense capital goods increased for the second consecutive month, up \$0.3 billion or 9.0 percent to \$4.0 billion. The February increase was 5.6 percent.

Shipments of manufactured products showed a slight decrease in March, down \$0.7 billion or 0.5 percent to \$152.1 billion. Several of the durable goods categories reported more severe declines. The motor vehicle industry shipments for the month dropped \$1.0 billion or 10.1 percent to \$8.9 billion following increases in January and February of 4.1 percent and 5.4 percent, respectively. This is the lowest volume of auto-

motive shipments for a month since the \$8.8 billion reported in November 1976. Other substantial shipments declines occurred in the nonferrous metal industries, and construction materials industries, i.e., lumber and wood products, and stone, clay, and glass products, and fabricated metal building materials.

Shipments by the household durable goods industries as a group declined \$0.2 billion or 4.4 percent to \$4.9 billion. This is the largest decrease shown in that series since a 6.4 percent decline in January 1978.

Shipments for the nondurable goods industries increased \$1.2 billion or 1.6 percent to \$74.8 billion. The major increases occurred in the foods, chemicals, and petroleum industries.

The backlog of manufacturers' orders increased \$2.0 billion or 0.7 percent to \$287.7 billion. All industries contributed to the increase except the primary metals categories. Both steel and nonferrous backlogs dropped significantly, with steel down \$0.5 billion or 2.6 percent and nonferrous down \$0.4 billion or 3.7 percent.

Manufacturers' book value of inventories increased \$3.3 billion or 1.2 percent in March to \$238.1 billion. This follows increases in January and February of 1.8 percent and 1.2 percent, respectively. Virtually all durable goods industries contributed to the March increase except steel, which declined 1.8 percent. The increase in inventories of the aerospace industries of \$0.7 billion or 3.8 percent resulted from both defense and nondefense category increases. The value of nondurable goods inventories rose \$1.4 billion or 1.7 percent, with the petroleum industry contributing \$0.5 billion to the increase.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for April is scheduled for release on May 21, 1980 and the full report is scheduled for release on June 2, 1980.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

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TABLE 1. χ^2 MINIMIZATION OF EQUATION (1) FOR $\Gamma_{\text{K}^0 \rightarrow \pi^0 \pi^0}$, $\Gamma_{\text{K}^0 \rightarrow \pi^+ \pi^-}$, $\Gamma_{\text{K}^0 \rightarrow \pi^+ \pi^- \pi^0}$, $\Gamma_{\text{K}^0 \rightarrow \pi^+ \pi^- \pi^+ \pi^-}$, AND $\Gamma_{\text{K}^0 \rightarrow \pi^+ \pi^- \pi^+ \pi^0}$

See footnotes at end of table.

Table 1.—VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES—Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted					Without seasonal adjustment ¹																	
		Monthly			Quarterly		Monthly																	
		Mar. 1980 ^p	Feb. 1980 ^p	Jan. 1980	Dec. 1979	I 1980 ^p	IV 1979	III 1979	Mar. 1980 ^p	Feb. 1980 ^p	Jan. 1980	Dec. 1979	Mar. 1979	Feb. 1979	Jan. 1979	Dec. 1978	Nov. 1978	1978	Annual					
INDUSTRY GROUPS, AND INDUSTRIES—Continued																								
36	Electrical machinery, total...	10,412	10,462	10,093	9,746	30,967	28,616	27,685	10,740	10,617	9,204	9,720	9,562	9,101	8,128	8,695	110,713	98,661						
361.2	Electrical transmission and distribution equipment...	1,931	1,761	1,716	1,592	5,410	4,987	4,947	2,007	1,883	1,609	1,534	1,760	1,727	1,559	1,479	19,915	17,432						
363	Household appliances...	1,089	1,183	1,295	1,159	3,367	3,394	3,208	1,162	1,164	1,077	1,064	1,072	1,072	1,072	1,072	19,915	17,432						
365	Radio and TV...	684	708	632	585	2,024	1,745	1,786	645	711	520	606	669	701	581	672	7,755	7,755						
366	Communication equipment...	3,014	3,134	2,805	3,087	8,953	8,704	8,088	3,208	3,165	2,598	3,183	2,859	2,536	2,781	2,593	22,143	22,143						
367	Electronic components...	1,867	1,799	1,680	1,577	5,346	4,605	4,623	1,906	1,826	1,608	1,563	1,463	1,457	1,263	1,108	17,870	17,870						
37	Transportation equipment...	15,034	15,913	15,437	14,726	46,386	45,183	47,253	16,342	16,274	13,853	13,963	19,273	17,729	16,572	15,627	196,681	188,848						
371	Motor vehicles and parts...	8,885	9,085	9,081	9,013	30,299	28,698	30,299	9,945	10,272	8,632	8,003	13,424	12,635	11,784	10,586	129,164	127,007						
372.6	Aircraft, missiles, and parts...	4,130	3,842	3,926	3,790	11,498	10,911	11,730	4,332	3,999	3,219	4,069	4,027	3,785	3,210	3,358	37,642	37,642						
373	Shipbuilding and military tank vehicles...	851	888	878	865	2,617	2,361	2,177	819	798	769	946	636	144	612	751	9,693	7,972						
38	Instruments and related products, total...	3,671	3,619	3,349	3,247	10,639	9,541	9,154	4,727	4,485	3,240	3,248	3,058	2,769	2,909	2,741	26,253	21,560						
381-4	Scientific and engineering instruments...	2,151	2,013	1,931	1,953	6,095	5,560	5,301	2,222	1,993	1,832	1,928	1,837	1,655	1,536	1,573	17,082	18,143						
386	Photographic goods...	1,343	1,410	1,239	1,104	3,992	3,375	3,222	1,320	1,304	1,034	1,151	1,059	954	824	1,018	12,757	11,255						
24	All other durable goods industries...	7,532	8,051	7,966	7,586	23,549	23,349	22,878	7,682	7,709	6,812	6,795	7,833	7,017	6,058	6,589	90,885	81,314						
25	Non-durable goods industries:																							
25.1	Food and kindred products, total...	20,673	20,203	19,984	20,729	60,860	61,115	59,231	20,599	20,391	18,903	20,352	19,875	19,037	17,507	18,473	234,838	211,416						
201	Meat products...	4,973	5,073	4,837	5,286	15,611	15,611	14,895	4,903	4,903	4,770	5,292	5,624	4,960	5,211	5,002	57,087	57,087						
208	Beverages...	2,374	2,554	2,344	2,426	7,472	7,156	6,966	2,397	2,248	2,114	2,215	2,323	2,005	1,794	1,979	27,659	24,710						
207	Fats and oils...	1,819	1,648	1,675	1,611	5,096	4,904	5,068	1,818	1,725	1,599	1,558	1,648	1,635	1,524	1,529	19,331	16,765						
203-6.9	All other foods...	8,366	8,197	8,198	8,631	24,961	25,220	23,989	8,883	8,664	7,698	8,554	7,906	7,583	6,776	7,583	93,875	86,919						
21	Tobacco products...	1,081	1,126	1,063	1,027	3,702	3,137	3,212	1,056	1,061	1,302	1,052	985	882	991	961	11,941	11,941						
22	Textile mill products...	4,214	4,285	4,203	3,925	12,702	11,925	11,936	4,455	4,458	3,814	3,786	4,077	3,637	3,519	3,491	46,992	43,951						
26	Paper and allied products, total...	5,829	5,864	6,016	5,492	17,707	16,718	17,016	5,947	5,949	5,705	5,156	5,639	5,374	4,737	4,573	67,432	57,432						
261-3	Pulp, paper, and allied products...	2,750	2,816	2,697	2,623	8,097	7,828	7,650	2,810	2,813	2,583	2,488	2,610	2,345	2,123	2,085	26,115	23,342						
264	Paperboard containers...	1,350	1,486	1,432	1,655	5,244	5,179	5,674	1,757	1,757	1,420	1,558	1,778	1,852	1,594	1,451	14,557	13,191						
28	Chemicals and allied products, total...	13,912	13,487	14,075	13,710	41,724	39,733	37,967	14,959	14,959	14,959	14,959	14,959	14,959	14,959	14,959	14,959	14,959						
281.6	Chemicals...	5,008	4,822	4,993	4,998	14,721	13,729	13,427	5,045	5,017	4,658	4,331	4,576	4,053	3,797	3,671	17,163	15,213						
283.4	Drugs, soap, and toiletries...	3,184	3,151	3,157	3,161	10,654	10,625	10,270	3,766	3,698	3,332	3,502	3,461	3,185	2,961	2,961	27,427	25,343						
29	Petroleum and coal products...	14,795	14,271	13,938	13,779	43,004	38,531	35,143	14,525	14,568	13,657	13,459	10,915	9,774	9,425	9,294	139,441	103,392						
30	Rubber and plastics products, non-metallic...	3,768	3,867	4,054	3,789	11,689	10,981	11,247	3,993	3,910	3,677	3,279	4,155	3,824	3,317	3,111	44,774	39,949						
31	All other non-durable goods industries...	10,311	10,500	10,772	10,515	31,783	30,621	29,702	10,533	10,602	9,596	9,604	9,257	8,944	8,259	8,144	116,246	106,107						
27	Industries...																							

¹ Preliminary.² Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.³ The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery, cutlery, handtools, and hardware; household appliances; radio and TV; optical goods, watches, and clocks; and miscellaneous personal goods.

Non-durable goods industries - The capital goods industries series is comparable to the previous Producer's Capital goods and the Defense Products (old series) categories.

Some defense products - Machinery except electrical (excluding farm machinery and equipment and machine shops); electrical machinery (excluding household appliances, radio and TV, and electronic components); and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products - Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the WA-175, Shipments of Defense-Oriented Industries, for the specified industries.

Table 2.--VALUE OF MANUFACTURES: NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES

SIC	Industry	Billions of dollars									
		Seasonally adjusted					Without seasonal adjustment				
		Monthly		Quarterly			Monthly		Last 12 months a year ago		
		Mar. 1980	Apr. 1980	May 1980	June 1980	July 1980	Mar. 1979	Apr. 1979	May 1979	June 1979	July 1979
		ALL MANUFACTURING, DURABLE AND NONDURABLE GOODS, TOTAL									
All manufacturing industries:											
156,059	155,424	156,131	147,748	145,444	142,967	139,417	139,086	139,974	144,441	139,431	1,542,893
Total, excluding trans-											
136,130	138,922	139,318	132,596	129,340	126,452	123,849	123,719	123,759	123,421	123,924	1,115,454
Total for industries with											
86,484	81,427	86,280	79,426	78,090	76,486	73,486	73,156	73,418	80,960	81,098	81,035
unfilled orders.....											
Durable goods industries:											
79,135	81,877	82,053	75,721	73,862	72,643	70,134	69,309	69,371	67,842	67,791	842,718
Total, excluding trans-											
67,053	68,262	68,638	63,167	60,973	60,114	58,268	58,236	58,336	56,842	56,859	680,893
orders.....											
Non-durable goods industries:											
74,924	71,567	74,308	67,099	65,106	63,114	60,114	60,114	60,114	67,931	68,421	405,475
Total, excluding trans-											
54,594	55,165	55,622	50,114	48,117	46,114	43,114	43,114	43,114	44,938	44,960	231,796
orders.....											
Total for industries with											
59,594	58,482	58,676	53,839	51,765	50,114	48,114	48,114	48,114	50,445	50,445	611,433
unfilled orders.....											
Market categories:											
11,991	11,667	11,341	10,897	10,479	10,053	9,628	9,203	9,786	10,768	10,100	126,075
26,313	25,972	25,824	26,673	26,099	26,195	26,584	26,920	27,233	26,090	26,482	288,484
Consumer staples, apparel											
24,096	22,594	21,848	21,610	21,291	20,923	20,815	20,495	20,013	21,488	20,426	238,447
11,011	12,021	11,108	11,011	11,011	11,011	11,011	11,011	11,011	11,011	11,011	144,571
Equipment and defense prod-											
13,074	13,203	12,988	12,915	12,718	12,549	12,368	12,174	12,036	12,407	11,070	149,181
ucts, except automotive.....											
11,011	11,011	11,011	11,011	11,011	11,011	11,011	11,011	11,011	11,011	11,011	144,571
Automotive equipment.....											
11,011	11,011	11,011	11,011	11,011	11,011	11,011	11,011	11,011	11,011	11,011	144,571
Capital goods industries:											
69,426	69,982	70,982	69,627	69,420	69,420	69,420	69,420	69,420	69,420	69,420	69,420
Primary and intermediate prod-											
5,030	5,253	5,097	4,863	4,544	4,225	3,906	3,587	3,268	4,961	4,642	51,463
ucts and intermediate goods.....											
27,462	27,462	27,462	26,616	26,616	26,616	26,616	26,616	26,616	26,616	26,616	26,616
23,689	22,087	21,865	22,880	22,880	22,880	22,880	22,880	22,880	22,880	22,880	22,880
5,993	5,515	5,389	5,736	5,736	5,736	5,736	5,736	5,736	5,736	5,736	5,736
Some-											
times.....											
Durable goods industry:											
4,087	4,184	4,506	4,136	3,967	3,798	3,629	3,460	3,291	4,961	4,642	44,164
Stone, clay and glass.....											
11,821	13,430	11,811	11,415	10,965	10,515	10,065	9,615	9,165	11,811	11,361	126,882
Primary metals, total.....											
5,562	6,181	5,873	4,990	4,601	4,212	3,823	3,434	3,045	5,562	5,172	55,307
Blast furnaces, steel mills:											
6,006	6,618	5,244	5,244	5,244	5,244	5,244	5,244	5,244	5,244	5,244	55,307
Nonferrous and other primary											
9,768	10,298	9,221	9,879	9,486	9,093	8,700	8,307	7,914	10,604	10,211	112,582
metal products.....											
Fabricated metal products.....											
Machinery, except electrical,											
14,859	14,394	15,028	14,130	13,680	13,230	12,780	12,330	11,880	15,884	15,434	163,304
Total.....											
2,846	3,072	2,956	2,956	2,956	2,956	2,956	2,956	2,956	2,956	2,956	2,956
Engines and turbines.....											
1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097
Construction, mining, and											
1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097	1,097
transportation equipment											
1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318	1,318
Metalworking machinery.....											
General industrial machinery											

See footnotes at end of table.

Table 2.--VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued

Preliminary, Revised,

Shipments and new orders are the total trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

capital goods industries - The capital goods industries is comparable to the previous Producers' Capital Goods and the Intensive Producers' Capital Goods categories.

See footnotes at end of table.

Table 3.—VALUE OF MANUFACTURING UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES—Continued

(Millions of dollars)

SIC	Industry group	Seasonally adjusted					Quarterly					Without seasonal adjustment				
		Monthly										Monthly				
		Mar., 1960 ^a	Feb., 1960 ^b	Jan., 1960	Dec., 1959	Nov., 1959	11/1959	12/1959	1/1960	11/1958	12/1958	1/1959	2/1959	3/1959		
		INDUSTRY GROUPS AND INDUSTRIES—Continued														
36	Electrical machinery, total...	38,109	37,314	36,306	35,582	34,715	33,906	32,594	31,867	29,374	27,991	26,114	24,267	22,288		
36.2	Electrical transmission and distribution equipment and industrial apparatus...	7,667	7,681	7,526	7,333	7,137	7,076	6,900	6,727	6,551	6,376	6,201	6,026	5,851		
363	Household appliances...	393	484	559	608	658	708	758	808	858	908	958	1,008	1,058		
366	Communication equipment...	17,635	17,031	16,536	16,137	15,735	15,328	14,926	14,520	14,118	13,716	13,314	12,912	12,510		
367	Electronic components...	11,137	10,868	10,606	10,345	10,084	9,823	9,562	9,301	9,040	8,779	8,518	8,257	8,000		
37	Transportation equipment...	135,637	134,711	134,125	133,667	133,206	132,745	132,284	131,823	131,362	130,901	130,440	129,979	129,518		
37.8	Aircraft...	81,956	80,676	79,418	78,160	76,902	75,644	74,386	73,128	71,870	70,612	69,354	68,096	66,838		
37.85	Shipbuilding and military tank vehicles...	10,909	10,925	11,006	11,086	11,166	11,246	11,326	11,406	11,486	11,566	11,646	11,726	11,806		
38	Instruments and related products...	6,476	6,486	6,496	6,506	6,516	6,526	6,536	6,546	6,556	6,566	6,576	6,586	6,596		
39	Miscellaneous durable goods industries...	5,518	5,362	5,206	5,050	4,894	4,738	4,582	4,426	4,270	4,114	3,958	3,802	3,646		

^aFigures are rounded.^bFigures are rounded.

Figures and new orders are the totals for the period and are adjusted for trading-day and calendar-day variations.

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Table 4. - VALUE OF MANUFACTURES, INVESTMENTS FOR INDUSTRY GROUPS, MARKET VALUE OF STOCKS AND SUPPLEMENTARY SERIES

SIC	Industry	Seasonally adjusted										Without seasonal adjustment ¹									
		Monthly					Quarterly					Monthly									
		1960		1970		1979		1979		1979		1960		1970		1979		1979		1979	
		Mar.	Feb.	Jan.	Dec.	III	II	I	IV	III	1978	Mar.	Feb.	Jan.	Dec.	III	II	I	IV	III	1978
(Millions of dollars)																					
All manufacturing industries																					
Total, excluding transportation, excluding trade, excluding government, excluding defense																					
Total for industries with unfilled orders																					
Durable goods industries, total																					
Durable goods with unfilled orders																					
Nondurable goods industries, total																					
Nondurable goods with unfilled orders																					
Market categories																					
Household durables																					
Capital goods industries																					
Investment goods and other primary products																					
Supplementary series																					
Household durable goods, industries																					
Capital goods industries																					
Investment goods and other primary products																					
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See footnotes at end of table.

Table 4.-VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	Seasonally adjusted										Without seasonal adjustment ¹				
		Monthly					Quarterly					Monthly				
		Monthly					I					Last 4 months				
		Mar. 1980 ²	Jan. 1980	Dec. 1979	III 1979	II 1979	I 1979	IV 1978	III 1978	Feb. 1980 ²	Jan. 1980	Dec. 1979	Nov. 1979	Feb. 1979	Dec. 1978	
INDUSTRY GROUPS AND INDUSTRIES																
36	Electrical machinery, total...	21,710	21,395	20,585	19,480	18,714	18,066	17,066	17,012	21,792	21,291	20,726	20,241	18,129	17,504	16,779
361, 2	Electrical transmission and distribution equipment															
361	Electrical transmission equipment	3,865	3,902	3,753	3,632	3,524	3,365	3,248	3,163	3,890	3,912	3,813	3,758	3,387	3,306	3,252
362	Industrial apparatus...	2,902	2,902	2,902	2,902	2,902	2,902	2,902	2,902	2,902	2,902	2,902	2,902	2,902	2,902	2,902
363	Radio and TV apparatus...	1,068	1,044	1,042	963	984	1,013	1,031	1,005	1,012	8,976	8,976	8,976	8,976	8,976	1,934
366	Communication equipment...	7,763	7,480	7,122	6,595	6,129	5,833	5,431	5,401	7,507	7,507	7,021	5,875	5,712	5,636	5,352
367	Electronic components...	3,237	3,242	3,129	3,086	2,897	2,850	2,734	2,508	3,253	3,216	3,110	3,068	2,728	2,668	2,495
37	Transportation equipment,															
371	Motor vehicles and parts...	31,459	30,674	29,881	28,534	27,390	25,717	24,131	23,716	31,731	30,910	30,388	29,511	28,047	26,344	23,874
372, 6	Aircraft, missiles, and parts...	7,829	7,801	7,972	8,811	8,857	8,761	7,767	7,500	7,907	7,965	8,097	7,980	8,034	8,049	7,775
3731	Shipbuilding and military tank vehicles...	19,041	18,339	17,956	15,481	14,986	13,176	12,593	11,532	19,176	18,423	17,783	17,102	13,267	12,737	12,391
3799	Instrument and related products, total...	2,152	2,118	2,112	2,064	1,975	1,717	1,775	1,833	2,180	2,044	2,060	2,052	1,718	1,716	1,657
38	Instrument and related products, total...	8,264	8,128	8,026	7,713	7,336	7,036	6,688	6,292	8,257	8,130	8,011	7,580	6,923	6,790	6,629
381-4	Scientific and engineering...	5,595	5,472	5,369	5,021	4,799	4,540	4,243	4,098	5,635	5,494	5,417	5,217	4,554	4,454	4,209
382	Photographic goods...	2,174	2,173	1,971	1,926	2,031	1,982	1,752	1,711	2,140	2,158	2,136	1,885	1,950	1,774	1,667
25	All other durable goods industries...	12,148	12,045	11,934	11,734	11,066	11,349	11,016	10,693	12,370	12,247	12,150	11,768	11,461	11,406	10,863
26	Non-durable goods industries: Food and kindred products, total...	20,306	20,466	20,326	19,856	19,106	18,119	17,262	16,784	20,126	20,675	21,011	21,024	17,924	18,036	17,858
201	Meat products...	1,885	1,982	1,990	1,753	1,716	1,650	1,673	1,568	1,830	1,909	1,959	1,869	1,667	1,655	1,574
202	Beverages...	3,769	3,729	3,869	3,679	3,614	3,478	3,453	3,426	3,857	3,887	3,796	3,830	3,564	3,505	3,418
203	All other food products...	1,962	1,962	1,888	1,704	1,605	1,598	1,437	1,384	1,813	2,070	2,134	2,141	1,722	1,760	1,635
203-3	All other food products...	11,345	10,955	10,875	11,070	10,390	9,896	9,308	9,311	10,337	11,152	11,538	11,538	9,739	9,768	9,685
21	Tobacco products...	3,549	3,496	3,537	3,746	3,716	3,386	3,619	3,449	3,715	3,762	3,771	3,727	3,754	3,796	3,829
22	Textile mill products...	6,081	5,970	5,948	5,686	5,645	5,318	5,666	5,606	6,162	6,063	5,936	5,694	5,813	5,814	5,339
26	Paper and allied products, total...	7,325	7,104	6,842	6,422	6,344	6,045	5,875	5,839	7,375	7,073	6,859	6,722	6,005	5,875	5,876
261-3	Pulp, paper, etc...	2,470	2,409	2,355	2,321	2,290	2,053	2,006	2,005	2,471	2,408	2,352	2,313	2,055	1,987	1,948
265	Paperboard containers...	1,980	1,952	1,918	1,899	1,863	1,752	1,710	1,710	1,969	1,933	1,899	1,863	1,625	1,576	1,548
264	All other paper containers...	2,875	2,744	2,569	2,559	2,462	2,469	2,469	2,469	2,469	2,732	2,608	2,566	2,209	2,179	2,139
28	Chemicals and allied products, total...	18,559	18,365	16,978	16,582	15,901	15,248	15,429	15,235	18,492	18,776	18,227	17,280	15,796	15,895	15,719
281, 6	Industrial chemicals, except organic and inorganic...	5,973	5,847	5,727	5,021	4,677	4,482	4,391	4,390	5,939	6,054	5,780	5,398	4,487	4,588	4,701
283, 4	Drugs, soap, and toiletries...	5,436	5,461	5,382	5,247	5,176	4,982	4,858	4,731	5,736	5,422	5,161	5,112	4,992	4,875	4,858
29	Petroleum and coal products...	7,777	7,241	7,025	6,660	6,354	5,367	5,063	5,408	7,518	7,133	7,056	6,816	4,896	5,064	5,551
30	Rubber and plastics products, n.e.c.	4,973	4,839	4,862	4,750	4,962	4,707	4,602	4,563	5,109	4,964	4,970	4,804	4,817	4,755	4,653
31	All other nondurable goods industries...	12,211	12,085	11,899	11,615	11,710	11,225	10,939	10,771	12,194	11,842	11,620	11,170	11,411	11,115	10,865

¹Revised.
²Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.
The supplementary series are regroupings of the separate industry categories as follows:
Household durable goods industries - Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household appliances, radio and TV, phonographs, games, watches, and clocks and miscellaneous personal goods.
Capital goods industries - The capital goods industries series is comparable to the previous Producers' Capital Goods and the defense products (old series) categories.
Semi-durable products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances), radio and TV, and electronic components, and the defense products--Based on separate series for the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the WA-175, Shipments of defense oriented industries, for the specified industries.

Without seasonally adjusted

1970-1979

1980-1989

1990-1999

2000-2009

2010-2019

Index

Index

Index

Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	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Table 6.--MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGES

(Based on seasonally adjusted data)

Item and industry group	Month-to-month			Average monthly rates of change				Average, 1975-1979	
	Feb.- Mar. 1980	Jan.- Feb. 1980	Dec.- 1979 Jan.- 1980	3 months			12 months Mar. 1979- Mar. 1980	Average rise	Average decline
				Dec. 1979- Mar. 1980	Sept.- Dec. 1979	Jun.- Sept. 1979			
Shipments:									
All manufacturing industries.....	-0.5	+0.6	+3.8	+1.3	+0.7	+1.0	+0.6	+1.7	-1.3
Durable goods industries, total.....	-2.4	+1.8	+5.0	+1.5	+0.1	+0.6	+0.1	+2.0	-2.0
Nondurable goods industries, total.....	+1.6	-0.7	+2.5	+1.1	+1.4	+1.4	+1.1	+1.6	-0.7
Total inventories:									
All manufacturing industries.....	+1.4	+1.2	+1.8	+1.5	+1.0	+1.1	+1.2	+0.7	-0.3
New orders:									
All manufacturing industries.....	+0.9	-0.5	+4.3	+1.6	+0.6	+1.1	+0.5	+2.0	-1.5
Durable goods industries, total.....	-3.3	+0.2	+5.5	+0.7	+0.1	+0.8	-0.3	+3.3	-1.9
Nondurable goods industries, total.....	+1.9	-0.7	+2.9	+1.4	+1.2	+1.6	+1.2	+1.6	-0.7
Unfilled orders:									
Durable goods industries, total.....	+0.7	+1.0	+1.6	+1.1	+0.8	+0.3	+0.9	+1.3	-0.8

Table 7.--RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Mar.- 1980	Feb.- 1980	Jan.- 1980	Dec.- 1979	Mar.- 1980	Feb.- 1980	Jan.- 1980	Dec.- 1979
All manufacturing industries, total.....	1.57	1.54	1.53	1.56	3.58	3.54	3.54	3.67
Durable goods industries, total.....	2.03	1.96	1.98	2.04	4.23	4.18	4.21	4.34
Stone, clay, and glass products.....	1.51	1.38	1.27	1.35	0.85	0.77	0.72	0.77
Primary metals.....	1.60	1.57	1.54	1.69	2.38	2.38	2.34	2.51
Fabricated metals.....	2.05	2.00	2.04	2.09	3.30	3.19	3.24	3.36
Machinery, except electrical.....	2.61	2.63	2.66	2.67	4.48	4.56	4.63	4.71
Electrical machinery.....	2.09	2.05	2.08	2.11	3.66	3.57	3.60	3.65
Transportation equipment.....	2.09	1.93	1.96	2.03	12.22	12.36	12.40	12.59
Instruments and related products.....	2.25	2.25	2.40	2.38	1.76	1.77	1.87	1.85
Nondurable goods industries, total.....	1.08	1.08	1.06	1.06	0.78	0.77	0.75	0.82
Food and kindred products.....	0.99	1.01	1.01	0.98	(X)	(X)	(X)	(X)
Tobacco products.....	3.28	3.10	3.35	1.43	(X)	(X)	(X)	(X)
Textile mill products.....	1.44	1.39	1.42	1.49	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.26	1.21	1.14	1.23	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.33	1.36	1.27	1.24	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.53	0.51	0.50	0.50	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.32	1.25	1.20	1.32	(X)	(X)	(X)	(X)

^P Preliminary. ^R Revised. (X) Not applicable.¹ Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976 and issued in the report M3-1.7 released in March 1978. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973 in the M3-1.6 benchmark publication released in December 1976.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.

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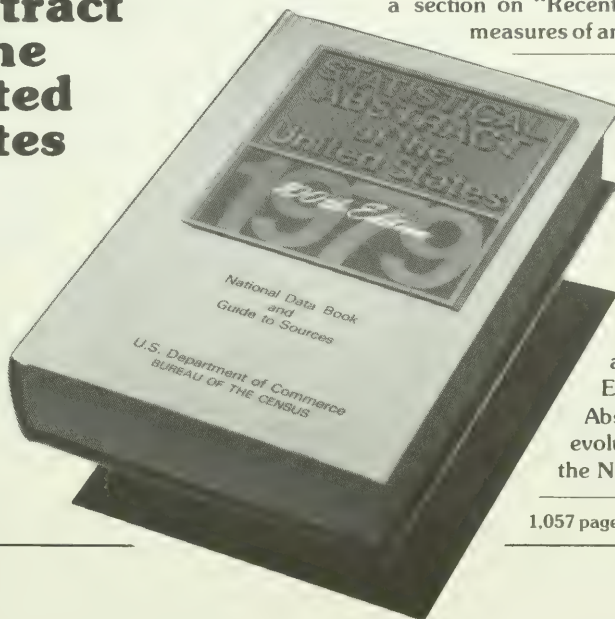
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Manufacturers' Shipments, Inventories, and Orders



U.S. Department of Commerce
BUREAU OF THE CENSUS

JUL 29 1980

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FOR RELEASE 3:00 P.M. MONDAY, JUNE 2, 1980

M3-1(80)-4

(All figures in text below are in seasonally adjusted current dollars.)

The January through April data presented in this report are consistent with the revised seasonally adjusted data for 1977-1979 released May 20 by the Department of Commerce. These revisions reflect recomputation of seasonal factors based on data through 1979. A copy of this publication may be obtained by calling (301) 763-2502.

New orders for manufactured goods in April declined \$8.3 billion or 5.5 percent to \$143.8 billion the Department of Commerce, Bureau of the Census reported today. The last time a decline of this magnitude occurred was December 1974, when orders fell 6.8 percent.

New orders for durable goods were down \$5.1 billion or 6.6 percent, revised downward from the earlier reported 4.2 percent, to \$72.5 billion. Virtually all industries were down significantly except aircraft. For that industry new orders increased \$2.9 billion or 53 percent to \$8.5 billion. New orders for all of the other durable goods industries declined 11.1 percent.

For nonelectrical machinery, new orders (which includes cancellations) amounted to \$11.7 billion, declining 16.2 percent from March. This is the lowest volume recorded since the \$11.5 billion level in June 1978. Steel producers reported a decline in orders of \$1.1 billion or 20 percent following a March decline of 12.4 percent.

In the capital goods industries, new orders for nondefense capital goods declined \$0.4 billion or 1.8 percent to \$22.2 billion. Changes in new orders reported by the industries comprising that category showed mixed patterns. The large nonelectrical machinery decline was substantially offset by increases in communication equipment, aircraft, and aircraft parts. New orders for defense capital goods increased for the third consecutive month. April orders for that category were valued at \$4.9 billion, up 5.8 percent, following a 25 percent increase in March and a 9.8 percent increase in February.

New orders for nondurables were down \$3.2 billion or 4.3 percent to \$71.3 billion, with all industries except tobacco declining.

Shipments by manufacturers in April were off \$6.0 billion or 4.0 percent from the March level of \$150.1 billion. Again, virtually all industries, durable and nondurable, were down. In the durable goods categories, motor vehicle manufacturers reported shipments of \$8.2 billion, down \$0.6 billion or 6.8 percent; primary metal producers, both steel and nonferrous, were down \$0.8 billion or 6.3 percent; and machinery manu-

facturers, both electrical and nonelectrical, were down \$1.2 billion or 4.8 percent. Only the aircraft, stone, clay, and glass, and miscellaneous durable goods industries reported increases.

In the nondurable goods category, all industries except tobacco and printing contributed to a shipments decline of \$2.3 billion or 3.1 percent. The foods industry reported the sharpest drop, down \$1.0 billion or 4.8 percent to \$19.4 billion. Chemical and petroleum producers each reported \$0.5 billion or nearly 4.0 percent declines.

With the significant decline in new orders and shipments, the backlog of unfilled orders showed little change from the March level of \$286.9 billion. A \$4.2 billion or 5.2 percent increase in the aircraft industry backlog and a \$0.9 billion or 2.5 percent increase in the electrical machinery backlog were offset by declines in nearly all other categories.

The book value of manufacturers' inventories rose \$4.1 billion or 1.7 percent to \$242.6 billion in April. This is the largest 1 month industry increase since the truckers' strike in April of last year when the increase was also 1.7 percent. In the durable goods area, the machinery and transportation equipment industries reported 2.6 percent and 2.3 percent increases, respectively. Of the \$1.0 billion increase in non-durable goods inventories, the chemical and petroleum industries accounted for \$0.9 billion.

The largest part of the inventory increase was accounted for by finished goods which increased by 2.3 percent for the month, while raw materials and work-in-process inventories increased 1.5 percent and 1.4 percent, respectively. The inventory to shipments ratio for April is calculated at 1.68. The ratio has been averaging about 1.54 for the last year.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for May is scheduled for release on June 20, 1980 and the full report is scheduled for release on July 1, 1980.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by the Subscriber Services Section (Publications), Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamp not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price 30 cents per copy, \$3.60 per year.

Table 1.—VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRIES, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(Billions of dollars)

SIC	Industry	Seasonally adjusted					Without seasonal adjustment ¹				
		Monthly					Monthly				
		Apr. 1969	Mar. 1969	Feb. 1969	Jan. 1969	1 1969	IV 1974	III 1974	Apr. 1979	Mar. 1979	Feb. 1979
ALL MANUFACTURING, DURABLE AND NONDURABLE GOODS, TOTAL											
	All manufacturing industries:										
	Total, excluding trans-	145,111	150,061	133,499	133,188	511,799			128,934	139,000	124,120
	shipment orders:	129,874	133,119	117,409	109,487	408,499			128,761	118,861	107,000
	Total for industries with un-	76,335	78,189	80,279	81,037	324,179			78,411	77,087	69,311
	filled orders:	75,337	77,480	79,339	80,000	319,333			77,400	76,420	68,761
	Durable goods industries, total:	61,212	63,032	60,524	60,408	176,384			61,200	60,861	58,400
	Durable goods with unfilled										
	orders:	21,456	22,114	22,730	23,129	93,339			21,116	20,806	19,793
	Nondurable goods industries,										
	total:	14,626	15,220	14,699	14,629	58,111			14,484	14,116	13,400
	Nondurable goods with unfilled										
	orders:	13,121	13,220	12,699	12,699	49,111			13,171	12,867	12,400
MARKET CATEGORIES											
	Home goods and apparel:	10,684	11,136	11,460	11,506	45,133			11,170	11,110	10,400
	Automotive equipment and	34,451	35,097	35,400	35,400	139,944			34,400	34,400	33,400
	equipment and defense pro-										
	ducts:	9,908	10,300	11,400	11,400	43,000			9,900	9,900	9,900
	Automotive equipment, sup-										
	plies and intermediate	11,626	12,007	12,084	12,084	47,811			11,600	11,600	11,600
	products:	68,196	68,181	69,411	68,746	261,344			68,100	68,100	67,400
	Construction materials and										
	supplies:	5,726	5,891	5,171	5,171	20,111			5,700	5,700	5,700
	Capital goods industries:	20,264	21,352	21,399	20,671	83,664			20,200	20,200	19,700
	Nondefense:	5,537	5,489	5,453	5,476	21,311			5,500	5,500	5,500
	Defense:	14,727	15,863	15,946	15,195	62,353			14,700	14,700	14,200
SUPPLEMENTARY SERIES											
	Manufacturing durable goods, in-										
	clude:	1,061	1,498	1,434	1,437	5,437			1,060	1,430	1,430
	Primary metals, total:	11,430	11,430	11,430	11,430	45,720			11,430	11,430	11,430
	Nonferrous and other primary	4,376	4,376	4,376	4,376	17,504			4,376	4,376	4,376
	metals:	9,054	9,054	9,054	9,054	28,216			9,054	9,054	9,054
	Manufactured metal prod., ex-										
	clude:	820	891	818	883	3,401			820	891	818
	Metals, barrels, and										
	drums:	13,609	14,006	13,611	13,913	54,134			13,600	14,000	13,600
	Machinery, except electrical,	1,007	1,037	1,099	1,099	4,363			1,007	1,037	1,037
	and instruments:	977	983	1,120	1,098	4,200			977	983	977
	Food, kindred, and allied	2,591	2,807	2,877	2,775	11,400			2,591	2,807	2,877
	products:	1,374	1,390	1,390	1,390	5,500			1,374	1,390	1,390
	Textile millinery:	1,217	1,217	1,217	1,217	4,900			1,217	1,217	1,217
	Chemical and allied products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Plastics, rubber, and	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	Other nonmetallic mineral	1,434	1,434	1,434	1,434	5,700			1,434	1,434	1,434
	products:	1,434	1,434	1,434	1,434	5,7					

Table 1.—VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES—Continued
(Millions of dollars)

SIC	Industry	Seasonally adjusted					Without seasonal adjustment ¹											
		Monthly					Quarterly											
		Apr. 1980 ²	Mar. 1980 ²	Feb. 1980 ²	Jan. 1980 ²	I 1980	IV 1979	III 1979	Monthly									
		INDUSTRY GROUPS, AND INDUSTRIES—Continued																
		Apr. 1980 ²	Mar. 1980 ²	Feb. 1980 ²	Jan. 1980 ²	I 1980	IV 1979	III 1979	Apr. 1980 ²	Mar. 1980 ²	Feb. 1980 ²	Jan. 1980 ²	Apr. 1979	Mar. 1979	Feb. 1979	Jan. 1979	1979	1979
36	Electrical machinery, total...	9,868	10,352	10,471	10,035	30,858	9,900	10,778	10,617	9,704	8,873	9,582	9,101	8,128	40,499			35,604
361,2	Electrical transmission and distribution equipment and apparatus...	1,680	1,909	1,761	1,688	5,358	1,708	2,004	1,883	1,609	1,652	1,760	1,727	1,559	7,204			6,498
363	Household appliances...	1,049	1,131	1,181	1,281	3,594	1,182	1,044	1,199	1,164	1,077	1,026	1,072	1,003	859			4,484
365	Radio and TV...	620	683	708	631	2,027	346	648	711	520	627	669	701	583	2,475			2,350
366	Communication equipment...	2,999	2,938	3,147	2,817	8,902	3,113	3,175	3,145	2,998	2,859	2,536	2,281	12,031				11,215
367	Electronic components...	1,809	1,861	1,798	1,680	5,139	1,853	1,911	1,826	1,608	1,463	1,463	1,457	1,243	7,198			5,626
37	Transportation equipment, total...	14,238	14,962	15,460	15,241	46,063	14,919	16,368	16,274	13,853	17,090	19,773	17,729	16,522	61,412			70,414
371	Motor vehicles and parts...	8,232	8,831	9,476	9,332	28,039	8,723	9,938	10,224	8,832	11,568	13,424	12,658	11,748	37,711			49,198
372,6	Aircraft, missiles, and parts...	4,455	4,053	3,921	3,790	11,714	4,285	4,286	3,999	3,219	3,574	4,027	3,285	3,230	15,789			14,196
373	Space and military tank vehicles...	771	928	844	883	2,455	792	885	798	769	784	636	649	602	3,464			2,671
38	Instruments and related products, total...	3,287	3,463	3,413	3,367	10,673	3,338	3,219	3,485	3,030	2,837	3,058	2,769	2,509	11,422			11,173
381,4	Scientific and engineering instruments...	1,536	1,537	1,410	1,240	4,021	1,155	1,352	1,304	1,034	974	1,159	1,029	834	6,565			6,058
386	Photographic goods...														4,865			
39	All other durable goods industries...	6,970	7,473	8,067	8,171	23,661	7,097	7,699	7,709	6,832	7,741	7,833	7,027	6,058	59,337			58,659
20	Nonferrous metals industries: Food and kindred products, total...	19,484	20,364	20,176	20,117	60,656	19,495	20,924	20,921	18,003	18,754	19,875	19,037	17,507	79,541			75,175
201	Food...	2,001	2,179	2,125	2,079	6,383	2,001	2,179	2,125	2,079	1,903	2,001	1,903	1,794	6,279			6,067
208	Beverages...	2,426	2,702	2,551	2,559	7,513	2,469	2,648	2,768	2,116	2,285	2,323	2,005	1,794	8,067			8,067
207	Fats and oils...	1,444	1,727	1,668	1,632	4,997	1,480	1,754	1,745	1,599	1,535	1,648	1,635	1,562	6,578			6,360
203-6,9	All other foods...	8,287	8,563	8,212	8,242	24,997	8,096	9,048	8,664	7,698	7,259	7,906	7,583	6,778	33,506			29,206
21	Tobacco products...	1,031	1,041	1,144	1,046	3,331	1,175	1,035	1,061	1,007	952	885	882	691	4,257			3,810
22	Textile mill products...	4,359	4,173	4,273	4,195	12,990	4,174	4,441	4,258	3,814	3,638	3,637	3,539	16,607	13,071			13,071
26	Paper and allied products, total...	5,837	5,863	5,857	5,067	17,787	5,923	6,032	5,969	5,705	5,464	5,379	5,179	4,737	33,439			31,279
261,3	Pulp, paper, etc...	2,747	2,746	2,703	2,733	8,287	2,817	2,838	2,813	2,583	2,506	2,610	2,345	2,112	11,071			9,584
262	Printed containers...	1,462	1,462	1,462	1,462	4,360	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,110	4,433			4,433
28	All other paper containers...	1,750	1,770	1,680	1,650	5,400	1,750	1,800	1,775	1,830	1,737	1,778	1,585	1,364	7,365			6,884
281,6	Chemicals and allied products, total...	13,191	13,709	13,508	13,937	41,144	14,178	14,766	14,637	12,938	12,476	13,121	11,704	10,382	55,699			48,969
281,6	Industrial chemicals...	6,994	4,936	4,804	4,913	16,651	5,036	5,370	5,101	4,658	4,356	4,576	4,075	3,777	30,744			16,744
283,4	except pigments...	3,631	3,631	3,534	3,515	10,680	3,616	3,809	3,608	3,322	3,103	3,196	2,981	1,435	11,395			12,710
29	Drugs, soap, and toiletries...	14,330	14,809	14,469	13,965	43,163	14,732	14,578	14,568	13,827	9,800	10,015	9,706	9,257	86,771			86,771
30	Petroleum and coal products, rubber and plastics products, n.e.c.	3,534	3,645	3,854	4,042	11,541	3,700	3,679	3,940	3,677	3,812	4,125	3,434	3,337	15,106			15,173
33	All other nonmetallic goods industries...	10,126	10,513	10,520	10,781	31,814	10,000	10,495	10,602	9,596	8,902	9,457	8,755	40,713				35,364

¹Revised.
²Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for total.
The supplementary series are groupings of the separate industry categories as follows:
Household durable goods industries - Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances; radio and TV; opticals; clocks, and miscellaneous personal goods.
Capital goods industries - The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories.
Nondefense products - Machinery, except electrical (excluding farm machinery and machine shops), electrical machinery (excluding household appliances, radio and TV and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.
Defense products - Based on separate reports on defense work filled by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the DOD-17, Shipments of Defense-Contracted Industries, for the specified industries.

Table 2.--VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued
(Millions of dollars)

SIC	Industry	Seasonally adjusted				Without seasonal adjustment ¹												Year to date	
		Monthly				Quarterly			Monthly								1980	1979	
		Apr. 1980 ²	Mar. 1980 ²	Feb. 1980 ²	Jan. 1980 ²	I 1980	IV 1979	III 1979	Last 4 months 1980 ²				Last 4 months 1979						
									Apr. 1980 ²	Mar. 1980 ²	Feb. 1980 ²	Jan. 1980 ²	Apr. 1979	Mar. 1979	Feb. 1979	Jan. 1979			
INDUSTRY GROUPS AND INDUSTRIES—Continued																			
36	Electrical machinery, total...	10,809	11,109	11,460	10,626	33,175			10,919	11,461	11,680	10,062	9,412	9,921	10,264	8,834	44,122	38,431	
361,2	Electrical transmission and distribution equipment and industrial apparatus.....	2,030	1,955	1,897	1,433	5,485			2,157	2,047	2,068	1,647	1,891	1,765	1,769	1,767	7,809	7,172	
363	Household appliances.....	4,930	4,735	4,725	4,641	18,071			4,931	4,785	4,725	4,690	4,727	4,691	4,691	4,691	18,071	18,071	
365	Business and office equipment.....	554	601	613	641	2,075			477	555	865	500	559	659	877	509	2,377	2,574	
366	Communication equipment.....	3,611	3,526	3,469	3,279	10,374			3,646	3,632	3,527	3,115	2,456	2,917	3,070	2,499	13,920	10,942	
367	Electronic components.....	1,690	2,062	2,083	1,899	6,044			1,966	2,177	2,194	1,926	1,863	1,775	1,785	1,614	8,263	7,037	
37	Transportation equipment, aircraft, missiles, and parts.....	17,391	16,345	16,005	16,448	48,798			17,399	17,141	16,132	15,961	18,610	21,061	21,568	18,863	66,633	80,082	
372,6	Ships, boats, and marine equipment.....	8,494	5,558	4,387	5,643	15,588			7,737	5,315	4,130	5,547	4,846	5,544	6,915	4,737	22,729	22,042	
3731	Shipbuilding and military tank vehicles.....	984	1,183	748	864	2,599			1,087	1,209	732	744	956	893	585	605	3,772	3,039	
38	Instruments and related products.....	3,181	3,695	3,760	3,641	11,096			3,181	3,828	3,630	3,251	2,938	3,253	2,777	2,621	13,890	11,589	
26	All other durable goods industries.....	6,846	7,542	8,011	8,304	23,557			7,105	7,924	7,760	6,892	8,038	7,970	7,108	6,133	29,681	29,239	

¹ Preliminary.

² Revised.

³ Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations.

⁴ The supplementary series are groupings of:

Household durable goods industries - Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances; radii and TV; phonograph records, tapes, and clocks and miscellaneous personal goods.

Capital goods industries - The capital goods industries is comparable to the previous Producers' Capital Goods and the Defense Producers' Capital Goods series categories.

Nondefense products - This category includes all nondefense products and services, including household appliances, radii, and TV and electronic components, and the nondefense portions of shipbuilding and repairing and railroad equipment. It is comparable to the previous Nondefense Products and Services category.

Defense products - Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the RA-175, Shipments of Defense-Oriented Industries, for the specified industries.

Table 1.—SALE OF MANUFACTURES: FILLING ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES—Continued

(Millions of dollars)

SIC	Industry group	Seasonally adjusted										Without seasonal adjustment						
		Monthly					Quarterly					Monthly						
		Apr. 1980 ¹	Mar. 1980 ²	Feb. 1980 ²	Jan. 1980 ²	1V 1979	111 1979	11 1979	I 1979	TV 1978	Apr. 1980 ²	Mar. 1980 ²	Feb. 1980 ²	Jan. 1980 ²	Apr. 1979	Mar. 1979	Feb. 1979	Jan. 1979
INDUSTRY GROUPS AND INDUSTRIES—Continued																		
36	Electrical machinery, total...	38,686	37,944	37,190	36,219	35,552	36,715	33,906	32,669	30,427	38,382	37,363	37,179	36,119	35,426	35,761	35,096	34,698
361	Electrical transmission and distribution equipment and materials...	8,008	7,657	7,612	7,476	7,533	7,476	7,275	6,900	6,777	3,177	7,669	7,626	7,462	6,941	6,715	6,873	6,473
362	Household appliances...	291	310	316	322	358	397	483	638	639	307	321	336	352	408	458	474	471
363	Radios and TV...	338	357	367	352	318	608	535	695	525	591	370	453	325	634	665	499	469
364	Communication equipment...	18,205	17,592	17,604	16,582	16,137	15,765	15,489	15,132	14,206	18,084	17,560	17,161	16,771	15,004	14,904	14,404	14,004
365	Electronic components...	11,095	11,014	10,813	10,557	10,235	9,569	9,486	9,532	7,587	11,106	10,991	10,720	10,493	9,855	8,143	7,815	7,815
37	Transportation equipment...																	
371	Automobiles, trucks, and trailers...	108,798	105,642	106,257	104,116	102,747	98,516	95,133	89,148	90,910	108,661	106,124	105,424	105,553	98,867	98,416	97,526	97,436
372	Ships, boats, and marine equipment...	86,064	91,804	86,998	79,784	77,493	72,914	69,763	63,199	56,894	95,753	84,299	81,271	81,141	63,793	61,971	58,399	58,399
373	Aircraft, missiles, and space vehicles...	11,456	11,437	10,982	11,079	11,279	11,098	10,806	10,967	11,065	11,593	11,289	10,975	11,466	10,991	10,733	10,798	10,798
38	Instrumental and related products...	6,357	6,459	6,406	6,259	5,992	5,823	5,640	5,643	5,491	6,384	6,441	6,333	6,188	5,486	5,190	4,194	4,194
39	All other durable goods...	3,389	3,514	3,395	3,483	3,483	3,271	3,401	3,197	2,949	3,397	3,389	3,266	3,114	3,460	3,475	3,826	3,826

¹ Preliminary.² Revised.

Shipments and not orders are the totals for the period and are adjusted for training-day and calendar-month variations, unfilled orders and inventories are of the end of the period and are not adjusted for training-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries: Household furniture, kitchen articles, and pottery, cutlery, hardware, hand tools, and hardware; non-durable appliances, radios and TV, electronic goods, electronic and electronic components, personal goods.

Consumer durables: The capital goods industries series is comparable to the previous Producer's Capital Goods and the balance. Products sold without categories. Consumer products: machinery, except electrical (including farm machinery and equipment and machine shops), electrical machinery (excluding household appliances), tools and accessories, the non-durable portions of shipbuilding and repairing and rail and equipment, communication equipment, aircraft and aircraft parts, and electronic.

Defense products: Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. Data are comparable to those published annually in the "D-1". Shipments of defense-related industries in the specification industries.

Beginning in 1976, the fiscal year for the Federal Government probably affected the awarding of contracts and other financial arrangements. Although the impact of this change is not known, the new fiscal year established seasonal factors would have substantially distorted the current data since these seasonal factors reflect historical Government information patterns. Therefore, beginning in July 1976, new seasonal factors were developed by combining the existing end of fiscal year information with data for the previous calendar quarter. Thus, the quarter procedure for end of the fiscal year information is used for the 1976-77 fiscal year and for the 1977-78 fiscal year.

Seasonal factors are not comparable to those published in the "D-1". Since the seasonal factors are not comparable to those published in the "D-1", the seasonal factors are not comparable to those published in the "D-1". Since the seasonal factors are not comparable to those published in the "D-1", the seasonal factors are not comparable to those published in the "D-1".

Since such data are not comparable separately, this method of calculating the seasonal factors will be used until a sufficient amount of data are available to assess the impact of the change in the fiscal year on the seasonal pattern of the defense industries.

Table 4.—VALUE OF MANUFACTURES: INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES.—Continued

SIC	Industry	(Millions of dollars)														
		Seasonally adjusted					Quarterly		Without seasonal adjustment ¹							
		Monthly					Yearly		Monthly							
		Apr. 1960 ²	Mar. 1960 ²	Feb. 1960 ²	Jan. 1960 ²	IV 1959	III 1959	II 1959	I 1959	IV 1958	Mar. 1960 ²	Feb. 1960 ²	Jan. 1960 ²	Dec. 1959	Nov. 1959	Oct. 1959
INDUSTRY GROUPS AND INDUSTRIES																
36	Electrical machinery, total...	22,134	21,620	21,413	21,036	20,385	19,486	18,714	18,066	17,066	22,418	21,729	20,726	18,458	18,129	17,653
361,2	Electrical machinery, total...															
361	Electrical machinery, total...															
362	Electrical machinery, total...															
363	Household appliances...	9,970	9,868	9,918	9,819	9,753	9,632	9,524	9,465	9,348	9,032	8,890	8,813	8,592	8,387	8,206
364	Household appliances...	2,262	2,196	2,169	2,107	2,042	1,987	1,956	1,925	1,893	2,136	2,116	2,065	2,065	2,021	1,979
365	Household appliances...	1,111	1,053	1,010	1,023	1,042	963	984	1,013	1,011	1,103	1,103	976	991	979	1,014
366	Communication equipment...	7,908	7,741	7,507	7,397	7,122	6,895	6,719	5,813	5,431	7,911	7,799	7,301	5,938	5,875	5,712
366	Communication equipment...	3,278	3,240	3,225	3,138	3,086	2,997	2,850	2,714	2,508	3,314	3,263	3,110	2,721	2,728	2,668
37	Transportation equipment...	32,181	31,467	30,630	30,371	29,881	28,534	27,390	25,717	24,131	32,381	31,709	30,910	28,471	25,947	25,107
371	Motor vehicles and parts...	8,018	7,827	7,801	7,869	7,972	8,811	8,857	8,761	7,767	7,978	7,898	7,985	8,036	8,454	8,449
372,6	Aircraft, missiles, and parts...															
3731	Shipbuilding and military tank vehicles...	19,403	19,049	18,299	17,967	17,400	15,481	14,696	13,176	12,593	19,563	19,192	18,423	13,707	13,267	12,717
3795	Shipbuilding and military tank vehicles...	2,293	2,130	2,125	2,148	2,180	2,064	1,675	1,717	1,775	2,286	2,146	2,044	1,612	1,738	1,716
38	Instruments and related products, total...	8,303	8,237	8,128	8,043	7,713	7,456	7,336	7,036	6,468	8,197	8,264	8,130	7,154	7,023	6,790
381-4	Scientific and engineering...	5,696	5,597	5,472	5,379	5,259	5,021	4,799	4,340	4,243	5,762	5,636	5,484	4,417	4,323	4,256
386	Photographic goods...	2,149	2,135	2,117	2,184	1,971	1,920	2,031	1,982	1,752	2,192	2,146	2,138	2,034	1,950	1,774
39	All other durable goods industries...	12,216	12,181	12,019	11,934	11,734	11,734	11,606	11,249	11,014	12,373	12,386	12,247	11,150	11,476	11,406
20	Food and kindred products, total...	20,170	20,431	20,505	20,250	20,326	19,856	19,106	18,119	17,262	19,793	20,181	20,675	21,011	17,939	17,924
201	Meat products...	1,803	1,851	1,894	1,866	1,870	1,836	1,816	1,786	1,766	1,886	1,919	1,887	1,796	1,586	1,564
208	Beverages...	1,634	1,627	1,924	1,888	1,704	1,605	1,598	1,437	1,711	1,821	2,070	2,134	1,580	1,722	1,760
203-6,9	All other foods...	11,128	11,333	11,152	10,896	10,875	11,070	10,590	9,896	9,308	10,560	10,868	11,152	11,462	9,525	9,539
21	Tobacco products...	3,475	3,506	3,500	3,541	3,523	3,746	3,716	3,586	3,564	3,762	3,771	3,771	3,654	3,754	3,736
22	Textile mill products...	6,191	6,096	5,967	5,913	5,848	5,686	5,645	5,718	5,666	6,299	6,204	6,063	5,936	5,813	5,814
26	Paper and allied products, total...	7,336	7,296	7,116	6,906	6,779	6,622	6,344	6,045	5,875	7,432	7,232	7,071	6,859	6,271	6,005
261-J	Printing and allied products...	2,510	2,435	2,421	2,385	2,421	2,117	2,090	2,053	2,006	2,544	2,443	2,408	2,352	2,086	2,055
265	Paperboard containers...	1,948	1,980	1,968	1,922	1,899	1,843	1,781	1,750	1,710	1,965	1,943	1,899	1,787	1,721	1,710
284	All other paper containers...	2,878	2,881	2,767	2,599	2,559	2,442	2,469	2,250	2,159	2,923	2,829	2,732	2,608	2,198	2,178
28	Chemicals and allied products, total...	19,210	18,677	18,429	17,875	16,978	16,382	15,901	15,548	15,429	19,178	18,855	18,776	18,237	17,918	15,746
281-6	Industrial chemicals, ex-	6,298	6,055	5,982	5,691	5,277	5,021	4,697	4,482	4,591	5,982	6,054	5,780	4,784	4,487	4,385
283,4	Drugs, soap, and toiletries...	5,631	5,531	5,488	5,404	5,317	5,247	5,196	4,992	4,858	5,659	5,542	5,422	5,161	5,086	4,941
29	Petroleum and coal products...	8,471	8,062	7,297	6,933	6,660	6,354	5,347	5,063	5,423	8,113	7,647	7,133	7,036	7,111	6,846
30	Rubber and plastics products, n.e.c.	5,077	4,954	4,840	4,880	4,750	4,962	4,870	4,707	4,602	5,165	5,078	4,964	4,970	4,856	4,837
33	All other nondurable goods industries...	12,512	12,373	12,087	11,947	11,615	11,882	11,710	11,525	10,939	12,651	12,266	11,847	11,670	11,411	11,123
37	Transportation equipment...	32,181	31,467	30,630	30,371	29,881	28,534	27,390	25,717	24,131	32,381	31,709	30,910	28,471	25,947	25,107

¹ Preliminary.² Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances, radio and TV, phonographs, watches, and clocks, and miscellaneous personal goods.

Capital goods industries - The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories. Some basic portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and electronic components, and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and electronic components, and the defense products - based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the W-175, Shipments of Defense-oriented Industries, for the specified industries.

[illegible]

Table 6.--MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGES

(Based on seasonally adjusted data)

Item and industry group	Month-to-month			Average monthly rates of change				Average, 1975-1979	
	Mar.- Apr. 1980	Feb.- Mar. 1980	Jan.- Feb. 1980	3 months			12 months	Average rise	Average decline
				Jan.- Apr. 1980	Oct. 1979 Jan. 1980	July- Oct.- 1979	Apr.-1979 Apr.-1980		
Shipments:									
All manufacturing industries.....	-4.0	-1.8	+0.5	-1.8	+1.5	+0.8	+0.6	+1.6	-1.2
Durable goods industries, total.....	-4.8	-4.1	+1.6	-2.4	+1.1	+0.8	+0.2	+1.9	-1.9
Nondurable goods industries, total.....	-3.1	+0.6	-0.6	-1.0	+1.9	+0.9	+1.1	+1.6	-0.7
Total inventories:									
All manufacturing industries.....	+1.7	+1.5	+1.2	+1.5	+1.3	+1.1	+1.3	+0.7	-0.3
New orders:									
All manufacturing industries.....	-5.5	-1.6	-0.6	-2.6	+2.0	+0.9	+0.3	+1.9	-1.2
Durable goods industries, total.....	-6.6	-4.3	-0.5	-3.8	+2.1	+0.9	-0.3	+2.8	-2.0
Nondurable goods industries, total.....	-4.3	+1.3	-0.7	-1.2	+1.9	+1.0	+1.0	+1.5	-0.7
Unfilled orders:									
Durable goods industries, total.....	+0.1	+0.6	+0.7	+0.5	+1.1	+0.6	+0.7	+1.2	-0.9

Table 7.--RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Apr.- 1980	Mar.- 1980	Feb.- 1980	Jan.- 1980	Apr.- 1980	Mar.- 1980	Feb.- 1980	Jan.- 1980
All manufacturing industries, total.....	1.68	1.59	1.54	1.53	3.75	3.62	3.53	3.53
Durable goods industries, total.....	2.22	2.07	1.96	1.98	4.49	4.30	4.17	4.20
Stone, clay, and glass products.....	1.52	1.54	1.36	1.25	0.81	0.86	0.78	0.71
Primary metals.....	1.83	1.67	1.59	1.53	2.45	2.42	2.38	2.31
Fabricated metals.....	2.16	2.09	1.99	2.04	3.41	3.38	3.18	3.23
Machinery, except electrical.....	2.89	2.68	2.62	2.68	4.71	4.59	4.55	4.69
Electrical machinery.....	2.24	2.09	2.04	2.10	3.94	3.67	3.55	3.61
Transportation equipment.....	2.26	2.10	1.93	1.99	13.10	12.32	12.35	12.66
Instruments and related products.....	2.53	2.26	2.25	2.39	1.94	1.77	1.77	1.86
Nondurable goods industries, total.....	1.15	1.10	1.08	1.06	0.76	0.79	0.77	0.75
Food and kindred products.....	1.04	1.00	1.02	1.01	(X)	(X)	(X)	(X)
Tobacco products.....	2.89	3.37	3.06	3.39	(X)	(X)	(X)	(X)
Textile mill products.....	1.49	1.46	1.38	1.41	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.26	1.24	1.22	1.14	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.46	1.36	1.36	1.28	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.59	0.54	0.51	0.50	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.44	1.36	1.26	1.21	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. ^RRevised. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976 and issued in the report M3-1.7 released in March 1978. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973 in the M3-1.6 benchmark publication released in December 1976.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, “at book values.” Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

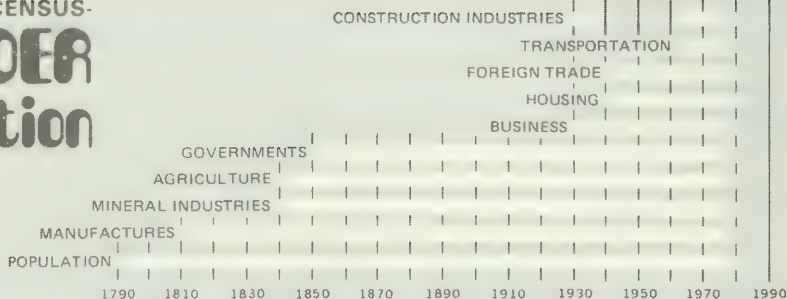
New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.

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CURRENT INDUSTRIAL REPORTS

Manufacturers' Shipments, Inventories, and Orders

MAY 1980

M3-1(80)-5



U.S. Department of Commerce
BUREAU OF THE CENSUS

FOR WIRE TRANSMISSION 2:30 P.M. Tuesday, July 1, 1980

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in May declined \$3.8 billion or 2.6 percent to \$139.3 billion the Department of Commerce, Bureau of the Census reported today. This is the lowest order volume recorded since April 1979 and the fourth consecutive monthly decline. New orders in April were down 5.9 percent, in March 1.6 percent, and in February 0.6 percent.

New orders for durable goods dropped \$4.8 billion or 6.6 percent to \$67.4 billion. All industries except nonelectrical machinery, and instruments and related products reported decreases.

Orders for transportation equipment showed the largest order decline, down \$3.1 billion or 17.8 percent to \$14.4 billion. Three-fourths of that decline was accounted for by the aircraft industry where after a 54 percent increase in April, new orders dropped to \$6.2 billion, a 28 percent decline. Without the aircraft industry, transportation equipment orders were still down significantly with an 8.2 percent decline.

In the primary metals area, steel orders fell for the third consecutive month, decreasing \$0.8 billion or 18.6 percent. The value of incoming steel orders for May was \$3.4 billion, substantially lower than the value of shipments for the month of \$4.7 billion. New orders for fabricated metal products, which have also been declining since the beginning of March, fell \$0.8 billion or 9.5 percent to \$8.0 billion.

The increase in new orders for nonelectrical machinery was \$1.5 billion or 12.6 percent. This followed a sharp decline in April of 16.8 percent.

For the capital goods industries, new orders for nondefense capital goods were down \$2.0 billion or 9.1 percent to \$20.1 billion. Changes in new orders reported by industries comprising that category showed mixed patterns. The large decline in commercial aircraft was partially offset by the increase in nonelectrical machinery. Orders for defense capital goods, which are usually volatile on a month-to-month basis, increased for the fourth consecutive month. The May increase of 6.7 percent followed increases of 7.7 percent in April, 24.8 percent in March, and 9.8 percent in February.

New orders for nondurable goods increased \$1.0 billion or 1.4 percent to \$71.9 billion.

The value of manufacturers' shipments in May declined for the third consecutive month, down \$1.8 billion or 1.3 percent to \$141.8 billion. A more substantial decline for the durable goods industries of \$2.7 billion or 3.8 percent was partially

offset by the increase in nondurable goods shipments of \$0.9 billion or 1.3 percent.

The shipments declines in the durable goods industries were widespread. The motor vehicle industry reported a \$1.0 billion decline, an 11.8 percent drop from April. For the last 12 months, shipments by this industry have fallen from \$12.0 billion in May 1979 to the current volume of \$7.3 billion, an average of 3.3 percent per month. Shipments in the steel industry also continued to drop, as producers reported a decline of \$0.7 billion or 13.3 percent to \$4.7 billion. The only major industries reporting shipments increases were electrical and nonelectrical machinery, and instruments and related products. Increases of 2.0 percent in the total machinery category and 2.9 percent in the instruments category followed substantial declines in April of 4.7 percent and 10.5 percent, respectively.

Shipments by the nondurable goods industries increased \$0.9 billion or 1.3 percent to \$72.3 billion, following the April decline of 3.7 percent. A \$1.0 billion or 5.5 percent increase in the foods industry and a \$0.5 billion increase in petroleum products more than offset small declines in nearly all other categories.

The value of manufacturers' unfilled orders dropped \$2.5 billion or 0.9 percent in May to \$284.0 billion, following an April decline of 0.2 percent. Prior to the April decline, the last decrease was 0.6 percent in August 1976. The only major industries not contributing to the decline in backlog were aircraft (up 2.2 percent) and electrical machinery (up 0.4 percent) in the durable goods area, and paper and allied products (up 3.5 percent) in the nondurable goods area.

The book value of manufacturers' inventories showed an increase of \$0.6 billion or 0.2 percent to \$243.1 billion. This increase is relatively small compared to the April increase of 1.7 percent. But with the decline in manufacturers' shipments, the ratio of inventory to shipments edged up another 3 points to 1.71, the highest since December 1975.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for June is scheduled for release on July 22, 1980, and the full report is scheduled for release on July 31, 1980.

Address inquiries concerning these figures to U.S. Department of Commerce, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

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TABLE 1.—VALUE OF MANUFACTURES* SHIPPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(Millions of dollars)

SIC	Industry	Seasonally adjusted					Without seasonal adjustment ¹				
		Monthly					Quarterly				
		Nov. 1967	Mar. 1968	Jan. 1969	1969	1970	1971	1972	1973	1974	1975
		1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
	All manufacturing industries:										
	total.....	144,860	151,000	151,000	151,000	151,000	151,000	151,000	151,000	151,000	151,000
	total, excluding transportation.....	129,251	137,000	137,000	137,000	137,000	137,000	137,000	137,000	137,000	137,000
	Total for industries with un-	71,994	74,100	74,100	74,100	74,100	74,100	74,100	74,100	74,100	74,100
	filled orders.....	69,466	71,000	71,000	71,000	71,000	71,000	71,000	71,000	71,000	71,000
	Durable goods, industries, total.....	59,492	61,180	61,180	61,180	61,180	61,180	61,180	61,180	61,180	61,180
	Durable goods with unfilled										
	orders.....	71,100	71,100	71,100	71,100	71,100	71,100	71,100	71,100	71,100	71,100
	Non-durable goods, industries,										
	total.....	14,462	14,462	14,462	14,462	14,462	14,462	14,462	14,462	14,462	14,462
	Non-durable goods with unfilled										
	orders.....	14,462	14,462	14,462	14,462	14,462	14,462	14,462	14,462	14,462	14,462
	Market categories:										
	Home goods and apparel.....	10,453	11,100	11,100	11,100	11,100	11,100	11,100	11,100	11,100	11,100
	Consumer staples.....	29,174	29,174	29,174	29,174	29,174	29,174	29,174	29,174	29,174	29,174
	Transport and defense pro-										
	ducts.....	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888	21,888
	Industries, except automotive,										
	and electronic.....	5,268	5,268	5,268	5,268	5,268	5,268	5,268	5,268	5,268	5,268
	Construction materials, sup-										
	plies, and intermediate										
	products.....	10,706	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000
	Other materials and supplies										
	and intermediate products.....	61,800	61,800	61,800	61,800	61,800	61,800	61,800	61,800	61,800	61,800
	Supplementary series: ²										
	Household durable goods, in-										
	dustry.....	4,421	4,421	4,421	4,421	4,421	4,421	4,421	4,421	4,421	4,421
	Consumer goods, industries.....	20,714	20,714	20,714	20,714	20,714	20,714	20,714	20,714	20,714	20,714
	Consumer goods, industries, ex-										
	cluding defense.....	20,714	20,714	20,714	20,714	20,714	20,714	20,714	20,714	20,714	20,714
	Defense.....	3,432	3,432	3,432	3,432	3,432	3,432	3,432	3,432	3,432	3,432

SIC	Industry	Seasonally adjusted					Without seasonal adjustment ¹				
		Monthly					Quarterly				
		Nov. 1967	Mar. 1968	Jan. 1969	1969	1970	1971	1972	1973	1974	1975
		1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
	Durable goods, industries:										
	total.....	3,732	3,732	3,732	3,732	3,732	3,732	3,732	3,732	3,732	3,732
	Products, glass, and glass										
	products.....	361	361	361	361	361	361	361	361	361	361
	Glass containers.....										
	total.....	10,372	11,133	11,133	11,133	11,133	11,133	11,133	11,133	11,133	11,133
	Primary metals, total.....	4,467	5,185	5,185	5,185	5,185	5,185	5,185	5,185	5,185	5,185
	Nonferrous and other primary										
	metals.....	4,402	4,402	4,402	4,402	4,402	4,402	4,402	4,402	4,402	4,402
	Fabricated metal prod., total.	8,310	9,136	9,136	9,136	9,136	9,136	9,136	9,136	9,136	9,136
	Drums.....	806	806	806	806	806	806	806	806	806	806
	Machinery, except electrical,										
	total.....	13,657	13,657	13,657	13,657	13,657	13,657	13,657	13,657	13,657	13,657
	Farm machinery and equipment										
	total.....	1,140	1,140	1,140	1,140	1,140	1,140	1,140	1,140	1,140	1,140
	Construction, mining, and										
	material handling equipment										
	total.....	2,331	2,331	2,331	2,331	2,331	2,331	2,331	2,331	2,331	2,331
	Metallworking machinery.....	354	354	354	354	354	354	354	354	354	354
	General industrial machinery										
	total.....	1,407	1,407	1,407	1,407	1,407	1,407	1,407	1,407	1,407	1,407

See footnotes at end of table.

Table 1.--VALUE OF MANUFACTURES* SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)														
		Seasonally adjusted					Without seasonal adjustment ¹									
		Monthly					Monthly									
		May 1980 ²	Apr. 1980 ²	Mar. 1980	Feb. 1980	I 1980	IV 1979	III 1979	May 1980 ²	Apr. 1980	Mar. 1979	Feb. 1979				
INDUSTRY GROUPS, AND INDUSTRIES--Continued																
	Electrical machinery, total...	10,067	9,878	10,352	10,471	30,858	28,614	27,756	9,858	9,909	10,778	10,617	8,990	8,813	9,562	9,101
36	Electrical transmission and distribution equipment and industrial apparatus.....	1,633	1,689	1,909	1,761	5,358	5,032	4,960	1,657	1,717	2,004	1,883	1,718	1,652	1,760	1,727
361,2	Radio and TV.....	1,008	1,019	1,131	1,182	3,594	3,381	3,213	1,023	1,014	1,119	1,164	1,065	1,029	1,078	1,070
363	Household appliances.....	672	621	683	708	2,022	1,754	1,795	558	547	547	547	551	529	589	570
365	Electronic components.....	3,220	3,008	2,918	3,147	8,902	8,677	8,106	3,196	3,123	3,175	3,145	2,551	2,539	2,859	2,536
366	Communication equipment.....	1,819	1,819	1,861	1,796	5,359	4,620	4,620	1,812	1,862	1,911	1,826	1,462	1,463	1,463	1,457
367	Electronic components.....	1,821	1,819	1,861	1,796	5,359	4,620	4,620	1,812	1,862	1,911	1,826	1,462	1,463	1,463	1,457
37	Transportation equipment, total.....	13,447	14,276	14,962	15,860	46,064	45,279	47,174	14,066	16,959	16,368	16,274	18,190	17,059	18,424	17,759
371	Motor vehicles and parts.....	7,284	8,232	8,481	9,876	28,039	28,033	30,313	7,776	8,724	9,938	10,224	12,883	11,568	13,424	12,658
372,6	Aircraft, missiles, and parts.....	4,322	4,281	4,053	3,191	10,441	11,125	11,522	4,362	4,312	4,286	3,999	3,635	3,574	4,027	3,285
373	Shipbuilding and military tank vehicles.....	940	799	928	844	2,655	2,346	2,184	917	820	885	798	627	784	636	669
3795	Shipbuilding and military tank vehicles.....	940	799	928	844	2,655	2,346	2,184	917	820	885	798	627	784	636	669
38	Instruments and related products, total.....	3,358	3,262	3,643	3,613	10,623	9,567	9,161	3,341	3,217	3,719	3,485	2,943	2,837	3,058	2,769
381,4	Electronic engineering.....	1,889	1,875	2,097	2,009	6,047	5,587	5,305	1,914	1,886	2,183	1,993	1,731	1,611	1,824	1,624
386	Scientific and engineering.....	1,291	1,213	1,371	1,410	4,021	3,367	3,230	1,256	1,162	1,157	1,384	991	976	1,079	924
386	Photographic goods.....	1,291	1,213	1,371	1,410	4,021	3,367	3,230	1,256	1,162	1,157	1,384	991	976	1,079	924
24	All other durable goods industries.....	6,576	7,006	7,423	8,086	23,659	23,274	22,912	6,732	7,134	7,699	7,709	7,685	7,741	7,833	7,027
25	All other durable goods industries.....	6,576	7,006	7,423	8,086	23,659	23,274	22,912	6,732	7,134	7,699	7,709	7,685	7,741	7,833	7,027
26	Food and kindred products, total.....	20,152	19,104	20,364	20,175	60,656	60,880	59,577	20,053	19,035	20,962	20,191	19,268	18,756	19,875	19,037
20	Food and kindred products, total.....	20,152	19,104	20,364	20,175	60,656	60,880	59,577	20,053	19,035	20,962	20,191	19,268	18,756	19,875	19,037
201	Meat products.....	4,432	4,414	4,791	4,985	14,653	15,568	15,102	4,600	4,449	4,777	4,905	5,368	5,189	5,424	5,277
208	Beverages.....	2,737	2,675	2,402	2,581	7,512	7,185	6,926	2,638	2,519	2,448	2,248	2,371	2,285	2,323	2,005
209	Tobacco products.....	1,284	1,469	1,727	1,858	5,400	5,226	5,059	1,756	1,745	1,754	1,745	1,553	1,535	1,638	1,468
203-6, 9	Fats and oils.....	8,486	7,954	8,112	8,112	24,497	25,059	24,158	8,136	7,771	9,048	8,664	7,286	7,239	7,908	7,583
21	All other food products.....	1,157	1,203	1,041	1,164	3,231	3,133	3,212	1,173	1,175	1,019	1,061	1,040	952	985	882
21	Tobacco products.....	4,026	4,178	4,172	4,173	12,690	11,963	11,951	4,101	4,193	4,441	4,258	3,973	3,818	4,077	3,637
22	Textile mill products.....	5,723	5,816	5,863	5,857	17,787	16,833	17,021	5,816	5,921	6,032	5,986	5,627	5,466	5,619	5,379
26	Paper and allied products, total.....	2,659	2,758	2,726	2,803	8,282	7,889	7,707	2,743	2,828	2,838	2,813	2,569	2,506	2,610	2,365
261,3	Pulp, paper, and allied products.....	1,280	1,345	1,347	1,374	4,105	3,719	3,650	1,299	1,361	1,384	1,384	1,274	1,221	1,271	1,142
265	Paperboard containers.....	1,784	1,731	1,770	1,680	5,400	5,226	5,059	1,774	1,732	1,800	1,775	1,834	1,737	1,781	1,582
264	All other paper containers.....	12,812	13,031	13,079	13,108	41,144	39,813	38,150	13,307	13,991	14,766	13,837	12,896	12,476	13,121	11,704
28	Chemicals and allied products, total.....	4,325	4,480	4,936	4,904	14,653	13,772	13,196	4,511	5,022	5,010	4,640	4,526	4,381	4,621	4,325
281,6	Industrial chemicals, except pigments.....	3,043	3,486	3,931	3,534	10,680	10,624	10,318	3,385	3,874	3,608	3,074	3,024	3,101	3,461	3,145
283,4	Drugs, soap, and toiletries.....	14,726	14,213	14,859	14,349	43,163	38,430	35,096	14,461	14,116	14,578	14,568	10,388	9,800	10,038	9,704
29	Petroleum and coal products, total.....	3,374	3,319	3,645	3,854	11,541	11,009	11,256	3,468	3,695	3,879	3,930	3,891	3,812	4,145	3,824
30	All other nonurable goods industries.....	10,366	10,307	10,513	10,520	31,814	30,613	29,715	9,835	10,102	10,495	10,602	9,210	9,902	9,287	8,494

¹Provisional.

²Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles, and pottery, cutlery, handtools, and hardware; household appliances; radio and TV; telephone sets, watches, and clocks; and miscellaneous personal goods.
 Nondefense products-Machinery - The capital goods industries series is comparable to the previous Products: Capital goods and the Defense Products: (solid articles) categories.
 Nondefense products-Machinery, except electrical (excluding farm machinery and equipment, and precision and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.
 Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MA-175, Shipments of Defense-Related Industries, for the specified industries.

[illegible]

See footnotes at end of table.

Table 2.-VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	Millions of dollars														
		Seasonally adjusted					Without seasonal adjustment ¹									
		Monthly			Quarterly	Monthly										
		May 1980 ²	Apr. 1980 ²	Mar. 1980	Feb. 1980	I 1980	IV 1979	III 1979	May 1980 ²	Last 4 months Apr.-Mar. 1980	Feb. 1980	Last 4 months Apr.-Mar. 1979	May 1979	Last 4 months Apr.-Mar. 1979		
INDUSTRY GROUPS AND INDUSTRIES--Continued																
36	Electrical machinery, total...	10,204	10,737	11,103	11,440	33,174	29,387	28,769	9,829	10,848	11,461	9,307	9,412	9,307	9,421	10,264
361	Electrical transmission and distribution equipment and materials...	1,663	2,030	1,955	1,897	5,485	5,142	5,124	1,589	2,166	2,067	1,117	1,591	1,117	1,785	1,591
363	Household appliances...	1,021	999	1,126	1,175	3,540	3,339	3,151	1,036	1,000	1,185	1,075	1,067	1,075	1,099	1,099
365	Radio and TV...	690	556	601	833	2,075	1,497	1,861	582	479	555	318	529	318	599	877
366	Communication equipment...	3,454	3,574	3,526	3,569	10,374	8,997	8,420	3,285	3,612	3,527	2,892	2,536	2,892	2,617	3,070
367	Electronic components...	1,701	1,878	2,062	2,083	6,044	5,284	5,106	1,747	1,955	2,117	1,194	1,659	1,194	1,775	1,785
37	Transportation equipment...															
372	Aircraft, missiles, and parts...	14,392	17,510	16,345	16,005	48,798	49,345	51,269	13,815	17,517	17,141	19,132	19,310	19,132	21,061	21,568
373	Shipbuilding and military tank vehicles...	6,195	8,576	5,558	4,387	15,588	15,956	15,366	5,110	7,818	5,315	4,704	4,869	4,704	5,864	6,915
379	Instrument and related products...	879	1,066	1,181	748	2,595	2,437	2,435	724	1,167	1,209	732	956	760	893	585
38	All other durable goods industries...	3,366	3,174	3,695	3,760	11,096	9,721	9,362	3,208	3,175	3,848	3,610	2,944	2,948	3,251	2,777
39	Nondefense products-machinery, except electrical...	6,138	6,842	7,862	8,010	22,857	23,293	22,848	6,609	7,102	7,424	6,018	7,470	6,018	7,470	7,108

¹Preliminary.²Equipment and non-equipment are the totals for the period and are adjusted for trading-day and calendar-month variations.

Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regressions of the separate industry categories as follows:

Household durable goods industries - Household furniture, kitchen articles and porcelains, cutlery, handtools, and hardware; household appliances, radio and TV, telephone goods, toys, and books and miscellaneous.

Capital goods industries - The capital goods industries is comparable to the previous "Products" category.

Nondefense products-machinery, except electrical - Nondefense products-machinery, except electrical machinery, excluding household appliances, radio and TV and electronic components, and the nondefense portions of shipbuilding and repairing and railroad machinery, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products-based on separate reports on defense work filed by large defense contractors in the following industries: ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the M-17, Shipments of Defense-Related Industries, for the specified industries.

TABLE 1.—SALES OF MANUFACTURES: ANNUAL AVERAGE FOR QUARTERS, MONTHS, AND YEAR-TO-DATE

SIC	Industry	Monthly					Quarterly					Last 4 years					Monthly					Last 4 years									
		Seasonally adjusted					Not seasonally adjusted					1954-1959					1954-1959					1954-1959					1954-1959				
		May 1960	Apr. 1960	Mar. 1960	Feb. 1960	1959	1958	1957	1956	1955	1954	May 1960	Apr. 1960	Mar. 1960	Feb. 1960	1959	1958	1957	1956	1955	1954	May 1960	Apr. 1960	Mar. 1960	Feb. 1960	1959	1958	1957	1956	1955	1954
ALL MANUFACTURING, DURABLE AND NONDURABLE GOODS, TOTAL																															
431	Manufacturing industries	283,957	286,441	286,907	286,924	289,716	273,673	267,682	258,248	254,776	254,269	284,337	284,776	286,671	285,516	285,078	285,078	285,078	285,078	285,078	285,078	284,904	284,904	284,904	284,904	284,904	284,904	284,904	284,904	284,904	284,904
	Total	174,137	177,555	181,585	186,667	176,906	174,191	173,089	169,615	168,414	173,786	174,637	181,584	181,261	173,707	174,211	174,211	174,211	174,211	174,211	174,211	168,423	168,423	168,423	168,423	168,423	168,423	168,423	168,423	168,423	168,423
	Durable goods industries	272,863	276,960	274,486	273,763	267,879	261,762	257,187	247,216	248,419	271,454	276,453	276,176	274,931	274,742	274,172	274,172	274,172	274,172	274,172	274,172	264,137	264,137	264,137	264,137	264,137	264,137	264,137	264,137	264,137	264,137
	Total	11,094	11,541	12,022	11,862	11,831	11,491	10,639	10,444	10,386	11,311	11,904	11,904	11,760	10,761	10,806	10,806	10,806	10,806	10,806	10,806	10,617	10,617	10,617	10,617	10,617	10,617	10,617	10,617	10,617	10,617
	Nondurable goods industries	4,205	4,454	4,717	4,659	4,630	4,866	4,827	4,768	4,768	4,768	4,768	4,768	4,659	4,679	4,855	4,855	4,855	4,855	4,855	4,855	4,432	4,432	4,432	4,432	4,432	4,432	4,432	4,432	4,432	4,432
	Total	160,953	160,316	159,071	157,686	156,999	159,917	168,449	164,354	164,836	159,819	166,583	159,429	158,597	160,380	163,636	163,636	163,636	163,636	163,636	163,636	161,991	161,991	161,991	161,991	161,991	161,991	161,991	161,991	161,991	161,991
	Capital goods industries	20,436	20,281	20,771	20,551	20,910	21,126	21,018	20,971	20,926	20,834	20,751	20,804	20,603	21,464	21,464	21,464	21,464	21,464	21,464	21,464	20,898	20,898	20,898	20,898	20,898	20,898	20,898	20,898	20,898	20,898
	Other materials and supplies	98,363	101,082	102,466	102,010	99,171	96,626	91,662	88,256	79,993	99,551	100,497	101,973	101,012	91,083	93,187	93,187	93,187	93,187	93,187	93,187	87,707	87,707	87,707	87,707	87,707	87,707	87,707	87,707	87,707	87,707
	Supplementary articles	1,321	1,472	1,680	1,668	1,675	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673
	Household durable goods industries	189,725	188,718	185,519	183,077	179,119	177,756	167,098	159,806	162,366	188,341	188,497	188,497	188,497	188,497	188,497	188,497	188,497	188,497	188,497	188,497	186,195	186,195	186,195	186,195	186,195	186,195	186,195	186,195	186,195	186,195
	Non-durable goods industries	136,817	137,657	136,118	134,881	131,519	136,755	127,070	124,706	109,405	136,283	137,819	136,112	135,561	138,889	137,288	137,288	137,288	137,288	137,288	137,288	135,312	135,312	135,312	135,312	135,312	135,312	135,312	135,312	135,312	135,312
	Intermediate goods industries	52,908	51,061	49,401	48,196	47,492	46,000	45,138	44,848	43,561	52,058	51,018	49,697	48,619	44,970	44,850	44,850	44,850	44,850	44,850	44,850	44,890	44,890	44,890	44,890	44,890	44,890	44,890	44,890	44,890	44,890
INDUSTRY GROUPS AND INDUSTRIES																															
2	Durable goods industry	2,855	2,885	3,066	2,988	2,917	3,080	3,061	2,921	2,953	2,948	3,019	3,116	2,981	3,160	3,175	3,175	3,175	3,175	3,175	3,175	2,874	2,874	2,874	2,874	2,874	2,874	2,874	2,874	2,874	2,874
3	Stone, clay and glass	25,856	27,876	29,528	29,963	29,963	30,376	31,458	31,041	27,055	27,337	29,419	30,963	31,449	33,066	33,946	33,946	33,946	33,946	33,946	33,946	31,320	31,320	31,320	31,320	31,320	31,320	31,320	31,320	31,320	31,320
33-36	Primary metals, total	14,779	16,088	17,449	17,964	18,007	18,077	20,888	20,627	17,450	15,739	16,893	18,234	18,537	22,073	22,969	22,969	22,969	22,969	22,969	22,969	30,872	30,872	30,872	30,872	30,872	30,872	30,872	30,872	30,872	30,872
	Aluminum, steel and other primary metals products	8,170	9,178	9,197	9,844	9,134	8,861	8,445	8,077	7,489	9,068	9,587	9,933	10,100	8,495	8,596	8,596	8,596	8,596	8,596	8,596	8,220	8,220	8,220	8,220	8,220	8,220	8,220	8,220	8,220	8,220
4	Fabricated metal products	28,173	28,464	28,237	28,400	28,381	27,976	27,819	27,400	26,211	28,168	28,448	28,654	28,370	27,924	27,818	27,818	27,818	27,818	27,818	27,818	26,853	26,853	26,853	26,853	26,853	26,853	26,853	26,853	26,853	26,853
5	Machinery, except electrical, electronic and computer	58,728	58,270	59,994	60,041	58,779	57,085	57,105	56,448	53,071	57,837	58,559	60,068	60,045	56,615	56,590	56,590	56,590	56,590	56,590	56,590	54,578	54,578	54,578	54,578	54,578	54,578	54,578	54,578	54,578	54,578
53	Engineering, metalworking, construction, mining, and material handling equipment	16,725	16,815	16,767	16,767	16,830	16,785	16,896	16,480	16,608	16,404	16,735	16,735	16,735	16,648	16,724	16,724	16,724	16,724	16,724	16,724	16,794	16,794	16,794	16,794	16,794	16,794	16,794	16,794	16,794	16,794
54	Metalworking machinery	8,301	8,651	8,677	8,884	8,423	7,993	8,032	7,968	7,968	8,376	8,376	8,376	8,376	8,376	8,376	8,376	8,376	8,376	8,376	8,062	8,062	8,062	8,062	8,062	8,062	8,062	8,062	8,062	8,062	8,062
55	General industrial machinery	7,604	7,628	7,798	7,620	7,163	6,757	6,111	5,693	5,146	7,596	7,536	7,728	7,528	6,009	5,852	5,852	5,852	5,852	5,852	5,852	5,642	5,642	5,642	5,642	5,642	5,642	5,642	5,642	5,642	5,642
56	General industrial machinery	6,664	6,589	7,183	7,054	7,098	7,239	7,242	7,026	6,840	6,651	6,647	7,183	7,075	7,161	7,096	7,096	7,096	7,096	7,096	7,096	6,891	6,891	6,891	6,891	6,891	6,891	6,891	6,891	6,891	6,891

See footnotes at end of table.

Table 3. --VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry group	Seasonally adjusted										Without seasonal adjustment ¹									
		Monthly					Quarterly					Monthly									
		May 1960 ^a	Apr. 1960 ^a	Mar. 1960	Feb. 1960	IV 1959 ^b	III 1959 ^b	II 1959 ^b	I 1959 ^b	IV 1958 ^b	May 1960 ^b	Apr. 1960 ^b	Mar. 1960	Feb. 1960	May 1959	Apr. 1959	Mar. 1959	Feb. 1959			
INDUSTRY GROUPS AND INDUSTRIES--Continued																					
36	Electrical machinery, total.....	38,944	38,808	37,944	37,190	35,631	34,858	33,845	32,518	30,487	38,773	38,402	37,863	37,179	33,275	32,960	32,420	32,061			
361.2	Radio and television sets and distribution equipment.....	8,010	7,999	7,657	7,612	7,531	7,418	7,254	6,914	6,772	8,050	8,118	7,669	7,626	7,157	7,160	6,921	6,915			
363	Household appliances.....	304	291	310	316	364	407	470	443	425	320	307	321	334	489	498	458	471			
365	Radio and TV.....	348	337	395	477	342	599	533	695	543	316	292	360	453	317	537	634	645			
366	Communication equipment.....	18,392	18,159	17,592	17,004	16,123	15,803	15,489	15,113	14,200	18,137	18,047	17,560	17,107	15,345	15,004	15,086	15,038			
367	Electronic components.....	10,954	11,074	11,014	10,813	10,308	9,644	9,159	8,472	7,634	11,020	11,085	10,992	10,727	9,055 ^c	8,855	8,455	8,143			
37	Transportation equipment.....	109,820	108,876	105,642	104,257	102,906	98,840	94,748	88,882	81,003	108,489	108,740	106,182	105,410	91,804	90,847	89,326	87,536			
372.6	Aircraft, missiles, and space vehicles.....	87,971	86,099	81,804	80,298	77,929	73,098	69,254	63,096	56,133	86,553	85,806	82,399	81,271	65,811	64,763	63,488	61,971			
3731	Shipbuilding and military tank vehicles.....	11,442	11,502	11,237	10,982	11,297	11,146	10,895	10,924	11,017	11,424	11,646	11,299	10,975	11,295	11,162	10,991	10,733			
3795	Instruments and related products.....	6,378	6,371	6,459	6,407	5,985	5,830	5,678	5,407	5,086	6,366	6,399	6,441	6,333	5,477	5,486	5,384	5,190			
38	All other durable goods industries.....	3,111	3,350	3,514	3,495	3,317	3,297	3,361	3,189	2,951	3,226	3,357	3,389	3,164	3,424	3,358	3,063	2,975			

¹ Preliminary.

² Figures are revised. The figures for the period are adjusted for trading-day and calendar-month variations. The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware, household appliances, radio and TV, phonograph records, watches, and miscellaneous personal goods.

Capital goods industries - The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories. Nondefense products - Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (including household appliances), the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and advanced communication equipment, aircraft and shipbuilding. The defense portions of these categories are published annually in the US-175. Shipments of defense-oriented industries, for the specified industries.

Beginning in 1976, the fiscal year for the Federal Government (which affects the timing of contracts and other financial arrangements). Although the impact of this change is not known, the use of previously established seasonal factors would have substantially distorted the current data since those seasonal factors reflect historical Government purchasing patterns. Therefore, beginning in July 1976, new composite seasonal factors were developed by combining the existing end of fiscal year information with data for the previous calendar quarter, i.e., one quarter preceding the end of the fiscal year. These composite factors were applied to the unfilled orders data for each of the separately tabulated defense industries. This adjustment also modified the new orders data. Similar adjustments could not be made for nondefense government orders, since such data are not compiled separately. This method of calculating the seasonal factors will be used until a sufficient amount of data are available to assess the impact of the change in the fiscal year on the seasonal pattern of the defense industries.

TABLE 3.-VALUE OF MANUFACTURE INVENTORIES FOR INDUSTRIES GROUPED ACCORDING TO TYPE OF TRADING UNIT
 (In millions of dollars)

SIC	Industry	Year ending										Seasonally adjusted annual rate ¹									
		1959					1960					1961					1962				
		Mar.	Jun.	Sep.	Dec.	1959	Mar.	Jun.	Sep.	Dec.	1960	Mar.	Jun.	Sep.	Dec.	1961	Mar.	Jun.	Sep.	Dec.	1962
	All manufacturing industries	261,110	262,430	268,172	271,931	258,258	266,258	271,931	276,411	281,941	288,258	294,111	299,411	304,111	308,258	313,941	318,258	322,411	326,111	329,411	332,258
	Total, excluding trans-	231,000	232,430	238,172	241,931	228,258	236,258	241,931	246,411	251,941	258,258	264,111	269,411	274,111	278,258	283,941	288,258	292,411	296,111	299,411	302,258
	portation	108,941	109,411	115,172	118,931	106,258	107,258	112,931	116,411	120,941	125,258	129,411	133,941	138,258	142,411	146,941	151,258	155,411	159,411	163,258	166,258
	Durable goods industries, total	169,071	170,411	176,172	180,931	166,258	167,258	172,931	176,411	180,941	185,258	189,411	193,941	198,258	202,411	206,941	211,258	215,411	219,411	223,258	226,258
	Non-durable goods with unitful	100,678	101,411	107,172	110,931	98,258	99,258	104,931	108,411	112,941	117,258	121,411	125,941	130,258	134,411	138,941	143,258	147,411	151,411	155,258	158,258
	orders,.....	86,081	86,411	92,172	95,931	84,258	85,258	90,931	94,411	98,941	103,258	107,411	111,941	116,258	120,411	124,941	129,258	133,411	137,411	141,258	144,258
	Standardize goods, industries,	18,846	18,911	19,172	19,431	18,258	18,358	18,611	18,871	19,131	19,391	19,651	19,911	20,171	20,431	20,691	20,951	21,211	21,471	21,731	21,991
	total	86,081	86,411	92,172	95,931	84,258	85,258	90,931	94,411	98,941	103,258	107,411	111,941	116,258	120,411	124,941	129,258	133,411	137,411	141,258	144,258
	Non-durable goods, with unitful	18,846	18,911	19,172	19,431	18,258	18,358	18,611	18,871	19,131	19,391	19,651	19,911	20,171	20,431	20,691	20,951	21,211	21,471	21,731	21,991
	orders,.....	18,846	18,911	19,172	19,431	18,258	18,358	18,611	18,871	19,131	19,391	19,651	19,911	20,171	20,431	20,691	20,951	21,211	21,471	21,731	21,991
	Marked categories	18,257	18,357	18,457	18,557	17,657	17,757	17,857	17,957	18,057	18,157	18,257	18,357	18,457	18,557	18,657	18,757	18,857	18,957	19,057	19,157
	Consumer staples, apparel,.....	10,152	10,252	10,352	10,452	9,552	9,652	9,752	9,852	9,952	10,052	10,152	10,252	10,352	10,452	10,552	10,652	10,752	10,852	10,952	11,052
	Equipment and house pro-	6,716	6,766	6,816	6,866	6,116	6,166	6,216	6,266	6,316	6,366	6,416	6,466	6,516	6,566	6,616	6,666	6,716	6,766	6,816	6,866
	ducts, except automobiles,.....	9,488	9,538	9,588	9,638	8,738	8,788	8,838	8,888	8,938	8,988	9,038	9,088	9,138	9,188	9,238	9,288	9,338	9,388	9,438	9,488
	Automotive equipment,.....	10,408	10,458	10,508	10,558	9,608	9,658	9,708	9,758	9,808	9,858	9,908	9,958	10,008	10,058	10,108	10,158	10,208	10,258	10,308	10,358
	Consumer durables, sup-	20,111	20,161	20,211	20,261	19,311	19,361	19,411	19,461	19,511	19,561	19,611	19,661	19,711	19,761	19,811	19,861	19,911	19,961	20,011	20,061
	plies,.....	9,238	9,288	9,338	9,388	8,438	8,488	8,538	8,588	8,638	8,688	8,738	8,788	8,838	8,888	8,938	8,988	9,038	9,088	9,138	9,188
	Other materials and supplies	9,238	9,288	9,338	9,388	8,438	8,488	8,538	8,588	8,638	8,688	8,738	8,788	8,838	8,888	8,938	8,988	9,038	9,088	9,138	9,188
	and intermediate products,.....	9,238	9,288	9,338	9,388	8,438	8,488	8,538	8,588	8,638	8,688	8,738	8,788	8,838	8,888	8,938	8,988	9,038	9,088	9,138	9,188
	Supplementary series	9,238	9,288	9,338	9,388	8,438	8,488	8,538	8,588	8,638	8,688	8,738	8,788	8,838	8,888	8,938	8,988	9,038	9,088	9,138	9,188
	Household durable goods	9,238	9,288	9,338	9,388	8,438	8,488	8,538	8,588	8,638	8,688	8,738	8,788	8,838	8,888	8,938	8,988	9,038	9,088	9,138	9,188
	Capital goods industries,.....	9,238	9,288	9,338	9,388	8,438	8,488	8,538	8,588	8,638	8,688	8,738	8,788	8,838	8,888	8,938	8,988	9,038	9,088	9,138	9,188
	Non-durable,.....	9,238	9,288	9,338	9,388	8,438	8,488	8,538	8,588	8,638	8,688	8,738	8,788	8,838	8,888	8,938	8,988	9,038	9,088	9,138	9,188
	Defense,.....	10,488	10,538	10,588	10,638	9,638	9,688	9,738	9,788	9,838	9,888	9,938	9,988	10,038	10,088	10,138	10,188	10,238	10,288	10,338	10,388
	Durable goods, industries	6,104	6,154	6,204	6,254	5,304	5,354	5,404	5,454	5,504	5,554	5,604	5,654	5,704	5,754	5,804	5,854	5,904	5,954	6,004	6,054
	Stone, clay, and glass	611	616	621	626	531	536	541	546	551	556	561	566	571	576	581	586	591	596	601	606
	products,.....	21,018	21,068	21,118	21,168	19,118	19,168	19,218	19,268	19,318	19,368	19,418	19,468	19,518	19,568	19,618	19,668	19,718	19,768	19,818	19,868
	Primary metals, total,.....	11,741	11,791	11,841	11,891	10,341	10,391	10,441	10,491	10,541	10,591	10,641	10,691	10,741	10,791	10,841	10,891	10,941	10,991	11,041	11,091
	Black furnaces, steel mills,.....	7,889	7,939	7,989	8,039	6,489	6,539	6,589	6,639	6,689	6,739	6,789	6,839	6,889	6,939	6,989	7,039	7,089	7,139	7,189	7,239
	Nonferrous and other primary	19,879	19,929	19,979	20,029	17,379	17,429	17,479	17,529	17,579	17,629	17,679	17,729	17,779	17,829	17,879	17,929	17,979	18,029	18,079	18,129
	metals,.....	1,531	1,536	1,541	1,546	1,331	1,336	1,341	1,346	1,351	1,356	1,361	1,366	1,371	1,376	1,381	1,386	1,391	1,396	1,401	1,406
	Prefabricated metal prod., total,	39,098	39,148	39,198	39,248	36,548	36,598	36,648	36,698	36,748	36,798	36,848	36,898	36,948	36,998	37,048	37,098	37,148	37,198	37,248	37,298
	metal cans, barrels, and	3,204	3,209	3,214	3,219	2,704	2,709	2,714	2,719	2,724	2,729	2,734	2,739	2,744	2,749	2,754	2,759	2,764	2,769	2,774	2,779
	drums,.....	8,695	8,745	8,795	8,845	7,545	7,595	7,645	7,695	7,745	7,795	7,845	7,895	7,945	7,995	8,045	8,095	8,145	8,195	8,245	8,295
	Machinery, except electrical,	2,412	2,417	2,422	2,427	2,012	2,017	2,022	2,027	2,032	2,037	2,042	2,047	2,052	2,057	2,062	2,067	2,072	2,077	2,082	2,087
	Engines and turbines,.....	3,204	3,209	3,214	3,219	2,704	2,709	2,714	2,719	2,724	2,729	2,734	2,739	2,744	2,749	2,754	2,759	2,764	2,769	2,774	2,779
	Farm machinery and equipment	8,695	8,745	8,795	8,845	7,545	7,595	7,645	7,695	7,745	7,795	7,845	7,895	7,945	7,995	8,045	8,095	8,145	8,195	8,245	8,295
	Construction, mining, and	2,412	2,417	2,422	2,427	2,012	2,017	2,022	2,027	2,032	2,037	2,042	2,047	2,052	2,057	2,062	2,067	2,072	2,077	2,082	2,087
	material handling equipment	2,412	2,417	2,422	2,427	2,012	2,017	2,022	2,027	2,032	2,037	2,042	2,047	2,052	2,057	2,062	2,067	2,072	2,077	2,082	2,087
	Textile mill machinery,.....	3,775	3,775	3,775	3,775	3,275	3,275	3,275	3,275	3,275	3,275	3,275	3,275	3,275	3,275	3,275	3,275	3,275	3,275	3,275	3,275
	General industrial machinery	3,775	3,775	3,775	3,775	3,275	3,275	3,275	3,275	3,275	3,275	3,275	3,275	3,275	3,275	3,275	3,275	3,275	3,275	3,275	3,275

See footnotes at end of table.

Table 4.-VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued

		(Millions of dollars)										Without seasonal adjustment ¹					
		Seasonally adjusted					Quarterly					Monthly					
		Monthly					Quarterly					Last 4 months					
		Monthly					Quarterly					Last 4 months					
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		Monthly					Quarterly					Last 4 months					
		Monthly					Quarterly</										

Preliminary. Revised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day or calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; optoelectronic goods, watches, and clocks; and miscellaneous personal goods.
 Capital goods industries - The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories.
 Nondurable products - Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV and electronic components), and the nondurable portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.
 Nondefense products - Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the US-15, Shipments of Defense Oriented Industries, for the specified industries.

Table 6. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGES

(Based on seasonally adjusted data)

Item and industry group	Month-to-month			Average monthly rates of change				Average, 1975-1979	
	Apr.- May 1980	Mar.- Apr. 1980	Feb.- Mar. 1980	3 months			12 months May 1979- May 1980	Average rise	Average decline
				Feb.-May 1980	Nov. 1979- Feb. 1980	Aug.-Nov. 1979			
Shipments:									
All manufacturing industries.....	-1.3	-4.3	-1.8	-2.5	+2.0	+0.4	+0.2	+1.6	-1.2
Durable goods industries, total.....	-3.8	-4.9	-4.1	-4.3	+2.4	-0.3	-0.6	+1.9	-1.9
Nondurable goods industries, total.....	+1.3	-3.7	+0.6	-0.6	+1.5	+1.1	+0.8	+1.6	-0.7
Total inventories:									
All manufacturing industries.....	+0.2	+1.7	+1.5	+1.1	+1.3	+1.2	+1.3	+0.7	-0.3
New orders:									
All manufacturing industries.....	-2.6	-5.9	-1.6	-3.4	+1.7	+0.8	-0.2	+1.9	-1.2
Durable goods industries, total.....	-6.6	-6.9	-4.3	-5.9	+2.2	+0.5	-1.0	+2.8	-2.0
Nondurable goods industries, total.....	+1.4	-4.9	+1.3	-0.7	+1.2	+1.1	+0.7	+1.5	-0.7
Unfilled orders:									
Durable goods industries, total.....	-0.7	+0.0	+0.6	-0.0	+1.0	+0.8	+0.6	+1.2	-0.9

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	May 1980	Apr. 1980	Mar. 1980	Feb. 1980	May 1980	Apr. 1980	Mar. 1980	Feb. 1980
All manufacturing industries, total....	1.71	1.69	1.59	1.54	3.84	3.75	3.62	3.53
Durable goods industries, total.....	2.31	2.21	2.07	1.96	4.62	4.49	4.30	4.17
Stone, clay, and glass products.....	1.64	1.54	1.54	1.36	0.85	0.81	0.86	0.78
Primary metals.....	2.04	1.83	1.67	1.59	2.51	2.46	2.42	2.38
Fabricated metals.....	2.39	2.16	2.09	1.99	3.75	3.42	3.38	3.18-
Machinery, except electrical.....	2.86	2.89	2.68	2.62	4.61	4.69	4.59	4.55
Electrical machinery.....	2.17	2.23	2.09	2.04	3.87	3.93	3.67	3.55
Transportation equipment.....	2.39	2.25	2.10	1.93	13.45	13.05	12.32	12.35
Instruments and related products.....	2.49	2.54	2.26	2.25	1.90	1.95	1.77	1.77
Nondurable goods industries, total.....	1.14	1.16	1.10	1.08	0.74	0.76	0.79	0.77
Food and kindred products.....	1.00	1.06	1.00	1.02	(X)	(X)	(X)	(X)
Tobacco products.....	3.01	2.89	3.37	3.06	(X)	(X)	(X)	(X)
Textile mill products.....	1.52	1.47	1.46	1.38	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.31	1.27	1.24	1.22	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.51	1.48	1.36	1.36	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.57	0.59	0.54	0.51	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.48	1.45	1.36	1.26	(X)	(X)	(X)	(X)

(NA) Not available. P Preliminary. R Revised. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976 and issued in the report M3-1.7 released in March 1978. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973 in the M3-1.6 benchmark publication released in December 1976.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

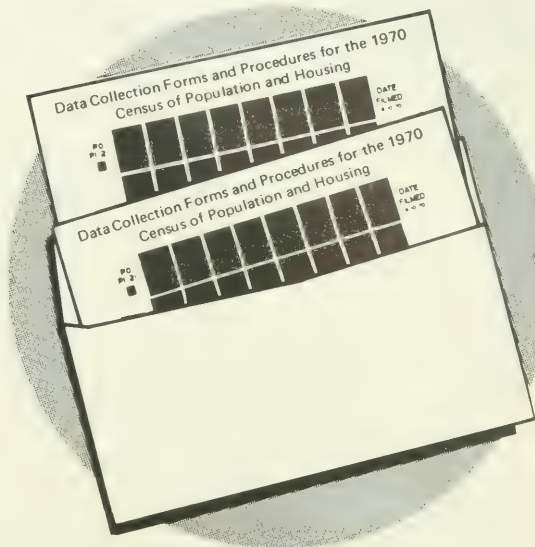
New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.

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Manufacturers' Shipments, Inventories, and Orders

JUNE 1980



U.S. Department of Commerce
BUREAU OF THE CENSUS

M3-1 (80)-6
FOR WIRE TRANSMISSION 2:30 P.M. Thursday, July 31, 1980

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured products in June declined \$0.7 billion or 0.5 percent to \$138.2 billion the Department of Commerce, Bureau of the Census reported today. This is the fifth consecutive monthly decline for the series.

New orders for the durable goods industries dropped \$0.7 billion or 1.0 percent to \$66.6 billion. The decline for new orders has been revised from the earlier reported 2.8 percent decline. Most of the revision was due to more complete reporting in the transportation equipment industries.

Without the transportation equipment industries, new orders for durable goods in June showed a 0.8 percent increase over May. A large increase in new orders was reported by primary metal producers. Orders were up \$0.7 billion or 8.7 percent to \$9.1 billion. This is the first increase for this industry since January when the volume of orders was substantially higher, valued at \$13.5 billion.

New orders for transportation equipment declined \$1.1 billion or 7.8 percent, with a \$1.3 billion or 21 percent decrease in the aircraft industry. Although this was the second consecutive monthly decline in aircraft orders, the new orders level for the aircraft industry continued to exceed the shipments level. Reflecting the decline in aircraft orders, new orders for the defense capital goods declined \$1.8 billion or 35 percent to \$3.5 billion, following 4 consecutive monthly increases. New orders for nondefense capital goods increased \$0.2 billion or 1.1 percent to \$19.8 billion.

New orders for the machinery industries declined \$0.3 billion or 1.3 percent to \$22.4 billion with both the electrical and nonelectrical industries showing decreases. While orders for nonelectrical machinery have been fluctuating for the past 4 months, electrical machinery orders have been steadily declining.

The value of manufacturers' shipments declined for the fourth consecutive month, down \$0.7 billion or 0.5 percent to \$140.9 billion. Over three-fourths of the decline occurred in the durable goods industries where shipments declined \$0.5 billion or 0.8

percent to \$68.9 billion. The shipments for the primary metals industries were down \$0.4 billion or 4.1 percent, with most of the decline in the steel category.

The value of manufacturers' unfilled orders declined \$2.6 billion or 0.9 percent in June to \$281.4 billion, following declines in May and April of 0.9 percent and 0.1 percent, respectively. Most major industry categories in the durable goods industries contributed to the durable goods decline of \$2.3 billion, except the transportation equipment industries where the unfilled orders increased \$0.3 billion or 0.3 percent.

The book value of manufacturers' inventories showed a slight increase over May of \$0.3 billion or 0.1 percent to \$243.7 billion. The \$0.5 billion or 0.5 percent increase in the inventories held by nondurable goods producers offset the \$0.1 billion or 0.1 percent decrease in durable goods producers' inventories. With the declines in shipments, the ratio of inventory to shipments increased for the fifth consecutive month. The ratio has risen from 1.53 in January to 1.73 in June.

During the second quarter of 1980, shipments of manufactured products were \$426.0 billion, \$29.1 billion or 6.4 percent below the first quarter shipments of \$455.1 billion. Shipments for durable goods industries declined in the second quarter by \$22.5 billion or 9.6 percent to \$210.5 billion. New orders for durable goods received during the second quarter were 14.0 percent below orders received in the first quarter. Inventories for all manufacturing industries at the end of the second quarter were 2.2 percent above first quarter.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for July is scheduled for release on August 21, 1980, and the full report is scheduled for release on September 2, 1980.

Manufacturers' Shipments,
Inventories, and Orders

OCT 27 1980

DEPOSITORY

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

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1. The first step is to identify the problem or question that needs to be answered.

See footnotes at end of table.

Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

[illegible]

^p Preliminary. ^r Revised.

¹Shipments and new orders are as of the end of the period and are not adjusted for trading-day or calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; opticianic goods, watches, and clocks, and miscellaneous personal goods.

Capital goods industries-The capital goods industries series is comparable to the previous Producers' Capital goods and the Defense Products (old series) categories. Nondefense products-machinery, except electrical (excluding farm machinery and machine shops), electrical machinery (excluding household appliances), radio and TV and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products-based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MA-175, Shipments of Defense-Oriented Industries, for the specified industries.

Table 2.—VALUE OF PRODUCTIONS, MIS. GROUPS FOR INDUSTRIAL GROUPS, WHICH CATEGORIES ARE SUBORDINATE TO OTHERS

Industry	Seasonally adjusted										Not seasonally adjusted									
	MONTHS					QUARTERS					MONTHS					QUARTERS				
	1957					1958					1957					1958				
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.
All manufacturing industries ¹	108,405	108,920	104,313	112,003	102,435	105,200	104,205	104,447	106,404	106,404	106,404	106,404	106,404	106,404	106,404	106,404	106,404	106,404	106,404	106,404
Food, kindred products, and kindred lines	122,004	120,490	117,305	113,720	105,407	104,138	103,703	103,703	103,703	103,703	103,703	103,703	103,703	103,703	103,703	103,703	103,703	103,703	103,703	103,703
Textile millinery, apparel, and kindred lines	8,900	9,139	9,008	91,147	93,607	94,356	94,116	94,116	94,116	94,116	94,116	94,116	94,116	94,116	94,116	94,116	94,116	94,116	94,116	94,116
Leather goods industries	69,626	67,408	72,410	77,509	70,377	70,377	70,377	70,377	70,377	70,377	70,377	70,377	70,377	70,377	70,377	70,377	70,377	70,377	70,377	70,377
Furniture goods with upholstered interiors	39,627	37,003	41,390	47,400	47,400	47,400	47,400	47,400	47,400	47,400	47,400	47,400	47,400	47,400	47,400	47,400	47,400	47,400	47,400	47,400
Nonferrous metal industries	31,379	31,302	30,307	32,319	31,408	31,408	31,408	31,408	31,408	31,408	31,408	31,408	31,408	31,408	31,408	31,408	31,408	31,408	31,408	31,408
Industries with additional industries	14,513	14,006	14,704	14,704	14,704	14,704	14,704	14,704	14,704	14,704	14,704	14,704	14,704	14,704	14,704	14,704	14,704	14,704	14,704	14,704
Industries with additional industries	57,086	57,136	56,149	58,529	57,339	57,339	57,339	57,339	57,339	57,339	57,339	57,339	57,339	57,339	57,339	57,339	57,339	57,339	57,339	57,339
Marked categories	10,436	10,480	10,436	11,106	11,106	11,106	11,106	11,106	11,106	11,106	11,106	11,106	11,106	11,106	11,106	11,106	11,106	11,106	11,106	11,106
Nonferrous metal and glass	26,429	26,135	25,105	27,105	27,105	27,105	27,105	27,105	27,105	27,105	27,105	27,105	27,105	27,105	27,105	27,105	27,105	27,105	27,105	27,105
Automotive equipment	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437	20,437
Construction materials, supplies, and intermediate products	8,607	8,607	8,607	8,607	8,607	8,607	8,607	8,607	8,607	8,607	8,607	8,607	8,607	8,607	8,607	8,607	8,607	8,607	8,607	8,607
Chemical and allied products	10,963	10,963	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282
Supplementary series ²	61,603	61,609	60,695	68,717	68,717	68,717	68,717	68,717	68,717	68,717	68,717	68,717	68,717	68,717	68,717	68,717	68,717	68,717	68,717	68,717
Nonferrous metal and glass industries	4,657	4,617	4,714	4,920	4,920	4,920	4,920	4,920	4,920	4,920	4,920	4,920	4,920	4,920	4,920	4,920	4,920	4,920	4,920	4,920
Capital goods industries	23,260	24,868	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110
Nonferrous metal and glass industries	19,415	19,584	22,162	22,162	22,162	22,162	22,162	22,162	22,162	22,162	22,162	22,162	22,162	22,162	22,162	22,162	22,162	22,162	22,162	22,162
Intermediate products	3,435	3,435	3,435	3,435	3,435	3,435	3,435	3,435	3,435	3,435	3,435	3,435	3,435	3,435	3,435	3,435	3,435	3,435	3,435	3,435
Leather goods industry	3,731	3,775	3,762	3,976	3,976	3,976	3,976	3,976	3,976	3,976	3,976	3,976	3,976	3,976	3,976	3,976	3,976	3,976	3,976	3,976
Primary metals, metal, and kindred lines	4,989	4,974	4,980	5,163	5,163	5,163	5,163	5,163	5,163	5,163	5,163	5,163	5,163	5,163	5,163	5,163	5,163	5,163	5,163	5,163
Textile millinery, apparel, and kindred lines	4,414	4,468	4,469	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810	4,810
Fabricated metal products	8,226	8,333	8,362	9,738	9,738	9,738	9,738	9,738	9,738	9,738	9,738	9,738	9,738	9,738	9,738	9,738	9,738	9,738	9,738	9,738
Machinery, except electrical	12,622	12,701	11,651	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000	14,000
Engines and turbines	820	1,097	1,060	2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917	2,917
Construction, mining, and kindred lines	2,441	2,475	2,481	2,861	2,861	2,861	2,861	2,861	2,861	2,861	2,861	2,861	2,861	2,861	2,861	2,861	2,861	2,861	2,861	2,861
Metalsworking machinery	695	809	684	2,388	2,388	2,388	2,388	2,388	2,388	2,388	2,388	2,388	2,388	2,388	2,388	2,388	2,388	2,388	2,388	2,388
General industrial machinery	1,031	1,163	1,163	2,826	2,826	2,826	2,826	2,826	2,826	2,826	2,826	2,826	2,826	2,826	2,826	2,826	2,826	2,826	2,826	2,826

See footnotes at end of table.

Table 2.--VALUE OF MANUFACTURES, NEW ORDERS FOR INDUSTRY CATEGORIES, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

Millions of dollars

SIC	Industry	Seasonally adjusted					Without seasonal adjustment ¹									
		Monthly		Quarterly		Year to date	Months									
		June 1960 ²	May 1960 ²	Apr. 1960	Mar. 1960		Jan. 1960 ²	Feb. 1960 ²	Mar. 1960 ²	Apr. 1960 ²	May 1960 ²	June 1960 ²	July 1960 ²	Aug. 1960 ²	Sept. 1960 ²	Oct. 1960 ²
36	Electrical machinery, total...	9,896	10,022	10,737	11,109	30,657	31,175	30,387	10,220	9,646	10,868	11,261	10,607	9,411	9,821	86,226
361	Household appliances...	1,713	1,636	2,090	2,095	5,399	5,485	3,126	1,612	1,877	2,186	2,067	1,777	1,891	1,765	11,402
362	Industrial machinery...	1,054	1,011	999	1,176	3,064	3,540	3,334	1,116	1,000	1,000	1,380	1,107	1,067	1,104	10,776
363	Household appliances...	1,054	1,011	999	1,176	3,064	3,540	3,334	1,116	1,000	1,000	1,380	1,107	1,067	1,104	10,776
364	Radio and TV...	1,054	1,011	999	1,176	3,064	3,540	3,334	1,116	1,000	1,000	1,380	1,107	1,067	1,104	10,776
365	Radio and TV...	1,054	1,011	999	1,176	3,064	3,540	3,334	1,116	1,000	1,000	1,380	1,107	1,067	1,104	10,776
366	Communication equipment...	1,054	1,011	999	1,176	3,064	3,540	3,334	1,116	1,000	1,000	1,380	1,107	1,067	1,104	10,776
367	Electronic components...	1,054	1,011	999	1,176	3,064	3,540	3,334	1,116	1,000	1,000	1,380	1,107	1,067	1,104	10,776
37	Transportation equipment...	13,401	14,320	17,510	17,345	45,091	48,298	44,445	14,226	14,746	17,317	17,161	18,774	18,610	11,001	94,592
371	Aircraft, missiles, and parts...	6,879	6,188	8,576	8,658	19,692	17,568	13,476	6,272	4,104	5,818	5,414	6,704	5,844	5,444	62,896
372	Automobiles and light trucks...	765	859	1,006	1,183	3,664	2,495	2,447	91	306	1,117	1,209	766	666	893	1,211
373	Trucks, trailers, and other motor vehicles...	9,445	9,360	1,125	9,667	27,791	11,096	8,721	1,588	1,440	5,117	5,828	1,664	1,648	1,273	17,461
38	Instrument and related products...	6,704	6,644	7,040	7,042	20,186	23,857	23,444	7,111	7,210	7,209	7,064	7,774	8,028	7,270	43,747
39	All other durable goods industries...															10,406

Preliminary.

¹ Shipments and new orders are for totals for the period and are adjusted for trading-day and calendar variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day variations.² The supplementary series are groupings of the separate industry categories as follows:

Household durable goods industries - Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances; radio and TV; electronic goods; vehicles, and house and miscellaneous personal goods.

Capital goods industries - The capital goods industries is comparable to the previous producers' capital goods and the defense industries old series categories.

Nondefense products-Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery, excluding a miscellaneous appliances, radio and TV, electronic components, and nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products-based on separate reports on defense work filled by large defense contractors in the following industries: ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MA-1, Shipments of Defense-Related Industries, for the specified industries.

Table 1.—VALUE OF MANUFACTURES: UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENT SERIES

SIC	Industry	Seasonally adjusted												Without seasonal adjustment ¹											
		Monthly						Quarterly						Monthly						Last 4 months (3-year span)					
		Monthly						Quarterly						Monthly						Last 4 months (3-year span)					
		June 1980	May 1980	April 1980	March 1980	1V 1979	1V 1979	1V 1979	1V 1979	1V 1979	1V 1979	1V 1979	1V 1979	June 1980	May 1980	April 1980	March 1980	June 1979	May 1979	April 1979	March 1979	April 1979	May 1979	June 1979	
(Billions of dollars)																									
ALL MANUFACTURING, DURABLE AND NONDURABLE GOODS, TOTAL																									
33	All manufacturing industries:	281,384	286,033	286,629	286,907	279,720	279,093	279,817	298,150	219,111	280,951	278,008	268,954	298,777	281,751	279,779	268,777	261,751	279,779	261,751	261,751	261,751	261,751	261,751	261,751
	Total, excluding trans-	171,193	176,117	177,293	181,265	176,806	176,190	177,409	189,481	138,119	172,434	171,511	170,800	189,481	177,409	176,806	176,806	176,806	176,806	176,806	176,806	176,806	176,806	176,806	176,806
	portation.....																								
	Durable goods industries:	270,710	274,081	275,098	276,884	269,679	261,742	271,140	287,206	228,674	271,169	270,710	268,670	287,206	271,140	270,710	270,710	270,710	270,710	270,710	270,710	270,710	270,710	270,710	270,710
	Total.....	10,674	11,092	11,531	12,023	11,831	11,291	11,638	13,447	11,002	10,782	11,114	11,405	13,447	11,002	10,782	10,782	10,782	10,782	10,782	10,782	10,782	10,782	10,782	10,782
MARKET CATEGORIES AND SUPPLEMENTARY SERIES																									
33	Market categories:	4,237	4,355	4,652	4,717	4,630	4,266	4,423	4,766	4,266	4,423	4,423	4,423	4,423	4,423	4,423	4,423	4,423	4,423	4,423	4,423	4,423	4,423	4,423	4,423
	Consumer staples.....	159,366	160,510	160,315	159,071	159,909	159,412	148,214	150,476	150,476	157,917	159,412	157,917	159,412	157,917	157,917	157,917	157,917	157,917	157,917	157,917	157,917	157,917	157,917	157,917
	Equipment and defense prod-	20,584	20,626	20,381	20,771	20,910	21,100	21,100	21,100	21,100	21,100	21,100	21,100	21,100	21,100	21,100	21,100	21,100	21,100	21,100	21,100	21,100	21,100	21,100	21,100
	ucts, except automotive.....	97,217	98,327	101,082	102,046	99,171	96,026	95,662	98,276	97,441	97,977	97,441	97,977	97,441	97,977	97,441	97,977	97,441	97,977	97,441	97,977	97,441	97,977	97,441	97,977
	Automotive equipment.....	3,969	3,971	3,670	3,480	3,478	3,478	3,478	3,478	3,478	3,478	3,478	3,478	3,478	3,478	3,478	3,478	3,478	3,478	3,478	3,478	3,478	3,478	3,478	3,478
33	Supplementary Series 2:	188,721	189,084	188,718	188,718	188,718	188,718	188,718	188,718	188,718	188,718	188,718	188,718	188,718	188,718	188,718	188,718	188,718	188,718	188,718	188,718	188,718	188,718	188,718	188,718
	Capital goods industries.....	135,775	136,082	135,657	135,657	135,657	135,657	135,657	135,657	135,657	135,657	135,657	135,657	135,657	135,657	135,657	135,657	135,657	135,657	135,657	135,657	135,657	135,657	135,657	135,657
	Nondefense.....	52,966	52,407	51,401	50,401	51,442	50,401	51,442	50,401	51,442	50,401	51,442	50,401	51,442	50,401	51,442	50,401	51,442	50,401	51,442	50,401	51,442	50,401	51,442	50,401
	Defense.....																								
INDUSTRY GROUPS AND INDUSTRIES																									
33	Durable goods, industry	2,765	2,882	2,885	3,386	2,937	1,686	2,000	2,821	2,400	2,853	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400
	Stone, clay and glass.....	25,732	25,982	27,876	29,426	29,962	30,276	27,608	31,003	27,608	30,002	27,608	27,608	27,608	27,608	27,608	27,608	27,608	27,608	27,608	27,608	27,608	27,608	27,608	27,608
	Primary metals, steel.....	14,178	14,770	16,068	17,459	18,007	18,877	20,662	20,662	20,662	20,662	20,662	20,662	20,662	20,662	20,662	20,662	20,662	20,662	20,662	20,662	20,662	20,662	20,662	20,662
	Blasst furnaces, steel mills	8,653	8,411	9,178	9,347	9,134	8,861	8,400	8,017	7,469	8,815	8,411	8,411	8,411	8,411	8,411	8,411	8,411	8,411	8,411	8,411	8,411	8,411	8,411	8,411
	Nonferrous and other primary	28,169	28,136	28,464	29,237	28,182	27,976	27,819	27,600	26,213	28,120	28,136	28,464	28,136	28,464	28,136	28,464	28,136	28,464	28,136	28,464	28,136	28,464	28,136	28,464
33	Fabricated metal products.....	56,184	57,432	58,270	59,284	58,779	57,385	57,108	56,248	57,071	56,130	57,385	57,108	56,248	57,071	56,130	57,385	57,108	56,248	57,071	56,130	57,385	57,108	56,248	57,071
	Machinery, except electrical,	16,417	16,168	16,815	16,767	16,630	16,265	16,889	16,889	16,889	16,265	16,889	16,889	16,889	16,889	16,265	16,889	16,889	16,889	16,889	16,889	16,889	16,889	16,889	16,889
	Engines and turbines.....	7,863	8,261	8,623	8,877	8,623	8,041	7,941	8,022	7,941	7,942	8,022	7,941	8,022	7,941	7,942	8,022	7,941	8,022	7,941	8,022	7,941	8,022	7,941	8,022
	Material handling equip-	7,868	7,668	7,628	7,798	7,798	7,143	7,111	7,091	7,111	7,111	7,091	7,111	7,091	7,111	7,111	7,091	7,111	7,091	7,111	7,091	7,111	7,091	7,111	7,091
	General industrial machinery	6,305	6,423	6,589	7,183	7,098	7,239	7,242	7,026	6,840	6,511	6,840	6,511	6,840	6,511	6,840	6,511	6,840	6,511	6,840	6,511	6,840	6,511	6,840	6,511

See footnotes at end of table.

See footnotes at end of table.

TABLE 4. - VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES

SIC	Industry	Seasonally adjusted										Without seasonal adjustment ¹									
		Monthly					Quarterly					Last 4 months					Months				
		June 1980 ^a	May 1980 ^b	Apr. 1980	Mar. 1980	IV 1979	III 1979	II 1979	I 1979	IV 1978	Q4 1978	Q3 1978	Q2 1978	Q1 1978	Dec. 1977	Nov. 1977	Oct. 1977	Sept. 1977	Aug. 1977	July 1977	June 1977
		ALL MANUFACTURING, DURABLE AND NONDURABLE GOODS, TOTAL																			
31	All manufacturing industries: Total, excluding transportation	24,171.4	28,140.7	24,756.0	218,722.7	298,798	291,341	211,467	205,792	198,334	243,589	295,400	270,287	273,418	272,123	271,300	270,287	270,287	270,287	270,287	270,287
32	Total, excluding transportation	211,089	211,090	210,439	207,207.6	199,442	199,405	186,605	186,605	172,181	211,328	212,005	212,005	212,005	212,005	212,005	212,005	212,005	212,005	212,005	212,005
33	Total for industries with unfinished orders	168,759	168,675	167,391	166,309	166,073	167,469	167,469	167,469	167,469	167,469	167,469	167,469	167,469	167,469	167,469	167,469	167,469	167,469	167,469	167,469
333-339	Durable goods industries, total	160,471	160,607	159,877	157,177	151,689	146,080	141,480	138,286	132,456	161,109	161,109	161,109	161,109	161,109	161,109	161,109	161,109	161,109	161,109	161,109
34	Durable goods with unfinished orders	129,738	129,611	128,654	126,008	120,653	115,547	111,137	107,019	101,899	130,265	131,052	131,052	131,052	131,052	131,052	131,052	131,052	131,052	131,052	131,052
35	Nondurable goods industries, total	83,361	82,796	80,565	81,195	76,409	71,395	70,982	70,405	68,876	82,486	82,486	82,486	82,486	82,486	82,486	82,486	82,486	82,486	82,486	82,486
351	Nondurable goods with unfinished orders	19,021	18,866	18,737	18,464	17,439	16,911	16,614	16,081	15,217	19,483	19,483	19,483	19,483	19,483	19,483	19,483	19,483	19,483	19,483	19,483
352	Market categories	18,429	18,411	18,419	18,429	17,788	17,441	17,441	17,441	17,441	17,441	17,441	17,441	17,441	17,441	17,441	17,441	17,441	17,441	17,441	17,441
353	Home goods and apparel	10,281	10,151	10,048	10,048	9,759	9,411	9,411	9,411	9,411	9,411	9,411	9,411	9,411	9,411	9,411	9,411	9,411	9,411	9,411	9,411
354	Equipment and defense products, except automotive	67,907	67,140	66,205	64,718	61,730	57,929	57,929	57,929	57,929	57,929	57,929	57,929	57,929	57,929	57,929	57,929	57,929	57,929	57,929	57,929
355	Automotive equipment, construction materials, and intermediate products	9,739	10,019	10,028	10,028	9,739	9,739	9,739	9,739	9,739	9,739	9,739	9,739	9,739	9,739	9,739	9,739	9,739	9,739	9,739	9,739
356	Other materials and supplies	20,136	20,095	20,185	20,185	19,846	18,665	18,665	18,665	18,665	18,665	18,665	18,665	18,665	18,665	18,665	18,665	18,665	18,665	18,665	18,665
357	Other materials and supplies and intermediate products	97,535	97,344	96,965	96,965	94,111	84,291	84,291	84,291	84,291	84,291	84,291	84,291	84,291	84,291	84,291	84,291	84,291	84,291	84,291	84,291
358	Supplementary series	9,423	9,437	9,437	9,411	9,439	9,439	9,439	9,439	9,439	9,439	9,439	9,439	9,439	9,439	9,439	9,439	9,439	9,439	9,439	9,439
359	Trucks, trailers, and other vehicles	75,117	74,608	74,608	74,608	72,769	69,739	69,739	69,739	69,739	69,739	69,739	69,739	69,739	69,739	69,739	69,739	69,739	69,739	69,739	69,739
36	Capital goods industries	66,555	66,555	66,555	66,555	66,555	66,555	66,555	66,555	66,555	66,555	66,555	66,555	66,555	66,555	66,555	66,555	66,555	66,555	66,555	66,555
361	Nonferrous metals	10,577	10,481	10,481	10,481	10,481	10,481	10,481	10,481	10,481	10,481	10,481	10,481	10,481	10,481	10,481	10,481	10,481	10,481	10,481	10,481
362	Discrete	6,189	6,189	6,189	6,189	6,189	6,189	6,189	6,189	6,189	6,189	6,189	6,189	6,189	6,189	6,189	6,189	6,189	6,189	6,189	6,189
363	Stones, clay, and glass products	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549
364	Plastics, rubber, and other primary materials	19,770	19,770	19,770	19,770	19,770	19,770	19,770	19,770	19,770	19,770	19,770	19,770	19,770	19,770	19,770	19,770	19,770	19,770	19,770	19,770
365	Primary metals, total	7,756	7,812	7,889	7,888	7,963	7,963	7,963	7,963	7,963	7,963	7,963	7,963	7,963	7,963	7,963	7,963	7,963	7,963	7,963	7,963
366	Nonferrous and other primary metals	19,405	19,412	19,427	19,409	19,401	18,716	18,432	17,751	16,960	19,589	20,156	20,164	20,163	19,608	19,608	19,608	19,608	19,608	19,608	19,608
367	Manufactured metal prod., total	1,391	1,398	1,376	1,402	1,353	1,192	1,169	1,297	1,197	1,553	1,760	1,782	1,826	1,808	1,808	1,808	1,808	1,808	1,808	1,808
368	Drugs	19,033	19,079	19,034	19,034	19,034	19,034	19,034	19,034	19,034	19,034	19,034	19,034	19,034	19,034	19,034	19,034	19,034	19,034	19,034	19,034
369	Machinery, except electrical, total	2,589	2,698	2,748	2,703	2,701	2,630	2,531	2,490	2,473	2,731	2,731	2,731	2,731	2,731	2,731	2,731	2,731	2,731	2,731	2,731
37	Chemical and allied products	3,216	3,209	3,109	3,114	3,108	2,878	2,688	2,588	2,588	3,257	3,286	3,338	3,398	3,382	3,382	3,382	3,382	3,382	3,382	3,382
371	Food, drink, and tobacco	8,695	8,695	8,490	8,490	8,490	7,963	7,657	7,051	8,650	8,650	8,650	8,650	8,650	8,650	8,650	8,650	8,650	8,650	8,650	8,650
372	Textiles, apparel, and leather	2,532	2,532	2,436	2,436	2,436	2,298	2,186	1,964	2,589	2,589	2,589	2,589	2,589	2,589	2,589	2,589	2,589	2,589	2,589	2,589
373	Construction, mining, and other nonmetallic mineral products	3,600	3,700	3,726	3,671	3,650	3,520	3,322	3,292	3,181	3,721	3,753	3,753	3,753	3,753	3,753	3,753	3,753	3,753	3,753	3,753
374	General industrial machinery	3,600	3,700	3,726	3,671	3,650	3,520	3,322	3,292	3,181	3,721	3,753	3,753	3,753	3,753	3,753	3,753	3,753	3,753	3,753	3,753

See footnotes at end of table.

See footnotes at end of table.

Table 4.-VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)																
		Seasonally adjusted						Without seasonal adjustment ¹										
		Monthly						Quarterly										
		June 1980 ²	May 1980 ²	Apr. 1980	Mar. 1980	IV 1979	III 1979	II 1979	I 1979	IV 1978	June 1980 ²	May 1980 ²	Apr. 1980	Mar. 1980	June 1979	May 1979	Apr. 1979	Mar. 1979
INDUSTRY GROUPS AND INDUSTRIES																		
36	Electrical machinery, total...	21,858	21,924	21,999	21,620	20,598	19,467	18,689	18,068	17,082	22,297	22,467	22,279	21,724	19,091	18,917	18,438	18,129
361,2	Electrical transmission and distribution equipment	3,977	3,996	3,965	3,868	3,770	3,637	3,514	3,366	3,262	4,016	4,064	4,017	3,900	3,765	3,634	3,452	3,345
363	Household appliances...	1,978	2,092	2,231	2,161	2,116	1,958	1,905	1,865	1,865	2,101	2,253	2,237	2,181	2,076	2,017	2,005	1,944
365	Radio and TV	1,082	1,101	1,105	1,053	1,039	970	989	1,012	1,029	1,130	1,153	1,107	1,101	1,011	961	944	929
366	Communication equipment	8,001	7,916	7,889	7,741	7,699	7,588	7,434	7,310	7,147	8,019	7,911	7,794	7,654	7,519	7,350	7,184	7,025
367	Electronic components...	3,404	3,336	3,290	3,260	3,099	2,897	2,819	2,712	2,518	3,441	3,363	3,327	3,263	3,193	3,121	3,050	2,979
37	Transportation equipment, total	32,625	32,202	32,121	31,447	29,916	28,638	27,337	25,716	24,151	32,661	32,221	31,204	29,121	26,421	24,454	22,884	22,169
371	Motor vehicles and parts...	7,556	7,775	8,019	7,827	8,012	8,872	8,850	8,769	7,748	7,139	7,635	7,379	7,088	6,814	6,416	6,145	5,984
372,6	Aircraft, missiles, and parts...	70,435	19,797	19,380	19,049	17,417	15,564	14,653	13,175	12,604	20,338	19,957	19,319	18,478	17,105	15,407	14,207	13,425
3731	Shipbuilding and military tank vehicles...	2,362	2,279	2,260	2,110	2,165	2,036	1,714	1,728	1,760	2,375	2,396	2,314	2,171	2,047	1,927	1,817	1,717
38	Instruments and related products, total...	8,414	8,351	8,296	8,237	7,785	7,471	7,317	7,004	6,710	8,547	8,510	8,204	7,819	7,419	7,134	6,845	6,555
381-4	Scientific and engineering...	5,897	5,885	5,867	5,597	5,291	5,021	4,780	4,540	4,268	5,955	5,839	5,713	5,406	5,131	4,857	4,582	4,302
382	Photographic goods...	2,077	2,131	2,149	2,155	1,986	1,941	2,031	1,960	1,763	2,135	2,197	2,146	2,086	2,007	1,914	1,845	1,754
383	Electronic equipment...	12,015	12,167	12,228	12,181	11,936	11,706	11,594	11,267	11,011	12,160	12,265	12,306	12,189	11,975	11,815	11,611	11,411
20	Nonurable goods industries: Food and kindred products, total...	20,169	20,102	20,292	20,431	20,397	19,780	18,957	18,118	17,294	19,187	19,459	19,909	20,181	18,411	17,613	16,924	16,174
201	Meat products...	1,780	1,766	1,784	1,851	1,927	1,757	1,719	1,657	1,623	1,800	1,827	1,869	1,867	1,740	1,601	1,510	1,416
202	Dairy products...	3,199	3,185	3,196	3,250	3,265	3,162	3,137	3,086	2,996	3,271	3,284	3,304	3,304	3,131	2,984	2,884	2,789
207	Beverages...	1,792	1,885	1,876	1,830	1,850	1,872	1,874	1,794	1,717	2,069	2,055	2,067	2,061	1,911	1,786	1,711	1,616
203-4, 8	All other food products...	11,033	11,211	11,271	10,999	10,999	10,975	10,476	9,916	9,496	10,151	10,471	10,596	10,564	9,676	9,298	8,829	8,479
21	Tobacco products...	3,505	3,505	3,475	3,506	3,503	3,762	3,668	3,599	3,602	3,467	3,438	3,544	3,653	3,608	3,571	3,504	3,414
22	Textile mill products...	6,107	6,149	6,163	6,096	5,864	5,695	5,657	5,714	5,686	6,203	6,304	6,283	6,234	6,111	6,015	5,911	5,811
26	Paper and allied products, total...	7,632	7,479	7,616	7,706	6,795	6,422	6,315	6,055	5,882	7,761	7,751	7,715	7,711	7,427	7,286	7,044	6,794
261-3	Pulp, paper, etc.	2,670	2,604	2,553	2,515	2,119	2,036	1,954	1,854	1,784	2,705	2,654	2,589	2,541	2,366	2,241	2,106	2,006
265	Paperboard containers...	2,027	2,026	1,989	1,980	1,909	1,834	1,778	1,739	1,717	2,069	2,055	2,067	2,061	1,911	1,786	1,711	1,616
266	All other paper containers...	2,915	2,845	2,894	2,881	2,568	2,465	2,451	2,468	2,468	2,987	2,984	2,934	2,881	2,694	2,585	2,489	2,389
28	Chemicals and allied products, total...	19,363	19,451	19,274	18,477	16,982	16,492	15,916	15,627	15,419	18,997	19,233	19,244	18,875	17,904	17,107	16,401	15,651
281,6	Industrial chemicals, except pigments, dyes, and toiletries...	6,484	6,361	6,316	6,055	5,246	4,975	4,687	4,608	4,381	6,285	6,309	6,304	6,285	6,056	5,884	5,684	5,484
283,4	Drugs, soap, and toiletries...	5,760	5,693	5,666	5,313	5,333	5,210	5,181	5,022	4,671	5,853	5,717	5,674	5,674	5,386	5,194	5,044	4,856
29	Petroleum and coal products, total...	8,837	8,384	8,388	8,062	6,581	6,343	5,402	5,143	5,159	6,639	6,126	7,067	7,087	7,011	6,901	6,796	6,606
30	Rubber and plastics products, n.e.c.	4,868	4,986	5,098	4,356	4,777	4,960	4,859	4,716	4,629	4,878	5,052	5,185	5,078	4,861	4,696	4,557	4,407
33	All other nonurable goods industries...	12,822	12,739	12,577	12,373	11,690	11,859	11,688	11,514	10,998	13,458	13,106	12,718	12,306	11,919	11,676	11,411	11,071

¹ Revised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; upholstered goods, window, and house, and miscellaneous personal goods.

Capital goods industries - The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories.

Nonhousehold durable goods industries - Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances), and the products of the metal and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products - Based on separate series for the following industries: Shipments of defense products, communications, communication equipment, aircraft and aircraft parts, and ordnance. The data are comparable to those published annually in the M-175, Shipments of Defense Oriented Industries, for the specified industries.

2. VALUE OF MANUFACTURES, IN VARIOUS, BY STATE OF FAMILIATIONS, IN 1880

Table 6. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS--MONTH-TO-MONTH AND LONG-TERM PERCENT CHANGES

(Based on seasonally adjusted data)

Item and industry group	Month-to-month			Average monthly rates of change				Average, 1975-1979	
	May-June 1980	Apr.-May 1980	Mar.-Apr. 1980	3 months			12 months June 1979 June 1980	Average rise	Average decline
				Mar.-June 1980	Dec.-1979 Mar. 1980	Sept.-Dec. 1979			
Shipments:									
All manufacturing industries.....	-0.5	-1.4	-4.3	-2.1	+0.9	+0.6	+0.1	+1.6	-1.2
Durable goods industries.....	-0.8	-3.8	-4.9	-3.2	+0.9	0.0	-0.4	+1.9	-1.9
Nondurable goods industries.....	-0.2	+1.0	-3.7	-1.0	+0.9	+1.3	+0.7	+1.6	-0.7
Inventories:									
All manufacturing industries.....	+0.1	+0.4	+1.7	+0.7	+1.5	+1.0	+1.1	+0.7	-0.3
New orders:									
All manufacturing industries.....	-0.5	-3.1	-5.8	-3.1	+0.7	+0.4	-0.2	+1.9	-1.2
Durable goods industries.....	-1.0	-7.0	-6.6	-4.9	+0.2	-0.2	-1.0	+2.8	-2.0
Nondurable goods industries.....	-0.0	+1.0	-4.9	-1.3	+1.2	+1.1	+0.7	+1.5	-0.7
Unfilled orders:									
Durable goods industries.....	-0.8	-0.8	+0.1	-0.5	+0.9	+2.3	+0.4	+1.2	-0.9

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	June 1980	May 1980	April 1980	March 1980	June 1980	May 1980	April 1980	March 1980
All manufacturing industries.....	1.73	1.72	1.69	1.59	3.82	3.83	3.75	3.62
Durable goods industries.....	2.33	2.31	2.21	2.07	4.61	4.61	4.50	4.30
Stone, clay, and glass products.....	1.62	1.60	1.54	1.54	0.81	0.83	0.81	0.86
Primary metals.....	2.13	2.04	1.83	1.67	2.56	2.53	2.46	2.42
Fabricated metals.....	2.31	2.35	2.16	2.09	3.68	3.71	3.42	3.38
Machinery, except electrical.....	2.84	2.89	2.89	2.68	4.41	4.61	4.69	4.59
Electrical machinery.....	2.21	2.18	2.23	2.09	3.93	3.86	3.93	3.67
Transportation equipment.....	2.53	2.42	2.25	2.10	14.16	13.71	13.05	12.32
Instruments and related products.....	2.51	2.50	2.54	2.26	1.88	1.92	1.95	1.77
Nondurable goods industries.....	1.16	1.15	1.16	1.10	0.72	0.74	0.76	0.79
Food and kindred products.....	0.99	1.00	1.06	1.00	(X)	(X)	(X)	(X)
Tobacco products.....	3.74	3.10	2.89	3.37	(X)	(X)	(X)	(X)
Textile mill products.....	1.55	1.54	1.47	1.46	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.34	1.32	1.27	1.24	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.57	1.53	1.48	1.36	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.59	0.57	0.59	0.54	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.48	1.51	1.45	1.36	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. ^RRevised. (X) Not applicable.¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976 and issued in the report M3-1.7 released in March 1978. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973 in the M3-1.6 benchmark publication released in December 1976.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



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Manufacturers' Shipments, Inventories, and Orders

JULY 1980

M3-1(80)-7

FOR WIRE TRANSMISSION 2:30 P.M. Tuesday, September 2, 1980



U.S. Department of Commerce
BUREAU OF THE CENSUS

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in July increased \$7.8 billion or 5.7 percent to \$146.4 billion the Department of Commerce, Bureau of the Census reported today. This is the first monthly increase in orders since January and the largest one month percentage increase since the 6.8 percent rise in December 1970. Although the July increase in orders was substantial, the volume of orders for the month was below the January high of \$155.6 billion.

New orders reported by durable goods manufacturers increased in July \$6.8 billion or 10.3 percent to \$73.3 billion, revised upward from the 8.4 percent reported earlier. All major industry categories except electrical machinery showed increases. In the transportation equipment category, new orders were up \$3.5 billion or 28 percent to \$16.2 billion. About half of the increase in transportation orders was attributed to shipments¹ for the motor vehicle industry. For the motor vehicle assembly portion of that industry, new orders are considered added to shipments made during the month. The aircraft industry reported orders for the month of \$5.7 billion, a 17.9 percent increase over June.

Within the primary metals category, steel producers reported their second consecutive large increase in orders. After sharp declines in March of 12.4 percent, April of 20.1 percent and May of 18.6 percent, steel orders in June rose 16.1 percent and July 22.5 percent. The value of steel orders for July was \$4.8 billion as compared to the high of \$7.3 billion recorded in January 1979. Nonferrous metals producers also had a large increase in orders. After 5 months of declines orders were up \$0.9 billion or 21.6 percent to \$5.2 billion.

In the capital goods industries new orders for nondefense capital goods increased \$0.9 billion or 4.4 percent to \$20.8 billion. Although the specific nondefense categories showed a mixed pattern of changes, the largest increases occurred in the

transportation equipment components of the series. New orders for defense capital goods increased \$0.9 billion or 25 percent to \$4.4 billion following a 35 percent decline in June. Prior to June, new orders for defense capital goods had been increasing since January, peaking at \$5.3 billion in May.

New orders in the nondurable goods industries increased \$1.0 billion or 1.4 percent to \$73.1 billion. All major categories showed increases except the apparel and petroleum industries, both of which reflected shipments declines.

The value of shipments of manufactured products increased in July \$3.9 billion or 2.7 percent to \$145.4 billion, following 4 consecutive monthly declines. Within the durable goods industries, shipments of transportation equipment were up \$1.7 billion or 13.5 percent to \$14.7 billion. Over three fourths of the increase was accounted for by the motor vehicle industry which is now into its annual model changeover period.¹ The seasonally adjusted increase of 20 percent or \$1.5 billion was based on June shipments of \$7.2 billion, the lowest one month volume of deliveries since the \$7.2 billion in October 1976. The value of shipments in June 1979 going into the model changeover period was \$10.5 billion. Excluding the motor vehicle industry, shipments for transportation equipment increased 5.0 percent.

An increase in shipments of \$0.5 billion by the primary metals industries was mostly attributable to nonferrous producers who reported an increase of \$0.4 billion or 8.7 percent to \$5.0 billion. The largest decrease in durable goods shipments occurred in the nonelectrical machinery category which declined \$0.3 billion or 2.3 percent to \$13.5 billion. The average value of monthly shipments for the first 6 months of this year for this category was \$13.8 billion.

The value of shipments by nondurable goods industries increased \$1.0 billion or 1.3 percent to \$73.5 billion, the largest increase since a 2.8 percent rate in January. Most of the major nondurable goods industries had more significant increases but a near billion dollar decline in deliveries by petroleum refiners offset much of the other increases. Excluding the petroleum industry nondurable goods shipments rose 3.3 percent.

The unfilled orders levels of manufacturers increased \$1.0 billion or 0.4 percent to \$282.0 billion, following 3 consecutive monthly declines. Increases of \$1.5 billion or 1.3 percent in the transportation equipment category and \$0.5 billion or 1.9 percent in primary metals were partially offset by declines in

¹ Motor vehicle assembly plants close down for retooling, generally during July, August, and September, for the forthcoming model year. Year-to-year variations in both the timing and duration of the model changeover period are sufficiently great that the normal seasonal adjustment procedures do not adequately identify the seasonality during the period and may introduce substantial erratic movement. To compensate for this, the estimated seasonally adjusted monthly average for the quarter is used for the seasonally adjusted data in each of the 3 months. These seasonally adjusted data are recompiled each month as additional information is received. The seasonally unadjusted automotive data are not subject to any special estimating procedure.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

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both the electrical and nonelectrical machinery orders backlogs. The orders backlog for the nonelectrical category declined \$0.2 billion or 0.3 percent and for the electrical category \$0.3 billion or 0.7 percent.

The book value of manufacturers' inventories in July increased \$0.9 billion or 0.4 percent to \$244.5 billion. After increases during the first four months of 1979 averaging more than 1.5 percent per month, the value of inventories has gone up less than 0.5 percent per month since April. For the durable goods industries the pattern of change was mixed. For the nondurable goods category most industries reported declines in inventories. Significant increases in the petroleum industry

of \$0.3 billion or 3.7 percent and the foods industry of \$0.5 billion or 2.3 percent more than offset those declines.

The inventory to shipments ratio for July dropped to 1.68, the first decline in the ratio since January.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for August is scheduled for release on September 23, 1980, and the full report is scheduled for release on October 1, 1980.

Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Millions of dollars)

SIC	Industry	Seasonally adjusted				Without seasonal adjustment ¹													
		Monthly			Quarterly	Monthly													
		July 1980 ²	June 1980 ²	May 1980	April 1980	II 1980	I 1980	Last 4 months				Last 4 months (a year ago)				Year-to-date			
								July 1980 ²	June 1980 ²	May 1980	April 1980	July 1979	June 1979	May 1979	April 1979	1980	1979	1979	1979
ALL MANUFACTURING, DURABLE AND NONDURABLE GOODS, TOTAL																			
All manufacturing industries:																			
Total.....	145,429	141,573	141,515	143,596	426,684	455,058	436,162	134,362	149,249	143,186	146,492	131,605	147,053	144,304	137,558	1,023,899	949,271		
Non-durable goods.....	130,723	128,615	128,216	129,320	386,151	408,995	390,883	122,096	134,940	129,264	131,733	118,022	129,967	126,114	120,408	921,948	849,798		
Total for industries with un- filled orders.....	79,437	73,710	74,114	76,381	224,205	240,176	228,465	68,907	78,672	75,166	77,853	68,468	78,699	76,490	73,704	537,827	512,892		
Durable goods industries, total.	71,940	69,056	69,443	72,207	210,706	233,032	223,486	64,724	74,880	71,296	74,464	67,066	78,976	77,997	73,560	515,564	517,750		
Durable goods with unfilled orders.....	60,128	58,739	59,178	61,187	179,104	194,066	184,551	54,504	63,354	60,310	62,629	54,927	64,268	62,284	58,909	432,344	436,704		
Nondurable goods industries, total.....	73,489	72,517	72,072	71,389	215,978	222,026	212,675	69,638	74,369	71,890	72,228	64,539	68,077	66,307	63,998	508,335	451,551		
Nondurable goods with unfilled orders.....	19,309	14,971	14,936	15,194	45,101	46,110	43,934	14,403	15,318	14,856	15,224	13,541	14,491	14,206	13,795	105,281	96,188		
MARKET CATEGORIES AND SUPPLEMENTAL SERIES																			
Market categories:																			
Home goods and apparel.....	11,038	10,724	10,566	10,451	31,643	34,337	32,768	9,998	11,018	10,101	10,387	9,590	10,799	9,906	9,635	74,481	68,876		
Consumer staples.....	27,321	26,708	26,151	25,070	77,929	77,944	78,056	25,926	27,145	25,841	24,990	24,203	24,914	24,319	23,802	180,776	168,106		
Equipment and defense pro- ducts, except automotive.....	21,438	21,310	21,681	21,107	64,298	64,900	61,635	19,572	23,377	21,874	21,570	18,065	20,700	19,618	18,526	150,722	134,589		
Automotive equipment.....	10,432	8,767	8,758	9,784	27,309	33,736	34,139	8,364	9,771	9,408	10,498	10,146	13,404	14,729	13,579	72,441	95,169		
Construction materials, sup- plies, and intermediate products.....	11,786	11,110	10,793	11,643	33,546	38,258	38,428	11,607	12,281	11,352	12,006	12,364	13,405	13,079	12,316	82,949	44,265		
Other materials and supplies and intermediate products.....	63,414	62,754	63,566	63,321	191,641	205,583	191,136	58,895	65,657	64,610	67,241	57,237	63,631	62,633	58,702	462,937	418,277		
Supplementary series: ¹																			
Household durable goods indus- tries.....	4,878	4,588	4,616	4,724	13,928	15,211	14,479	4,155	4,781	4,513	4,620	4,518	4,850	4,488	4,447	32,673	30,896		
Capital goods industries.....	24,041	24,063	24,202	23,911	72,176	73,344	69,422	21,857	26,005	24,224	24,256	20,332	23,540	21,988	21,913	169,343	157,521		
Nondefense.....	20,639	20,628	20,762	20,825	63,626	66,048	62,015	18,696	22,421	20,742	20,780	17,448	20,481	19,464	19,271	146,271	137,414		
Defense.....	3,402	3,435	3,440	3,586	10,501	9,710	9,753	3,161	3,563	3,483	3,559	2,418	3,177	2,864	2,973	23,072	20,481		
INDUSTRY GROUPS AND INDUSTRIES																			
Durable goods industries:																			
Stone, clay, and glass products.....	4,100	3,798	3,808	3,944	11,450	12,449	12,401	3,900	3,944	4,208	4,010	4,016	4,421	4,263	3,924	37,767	37,190		
Glass containers.....	411	382	383	368	1,113	1,075	1,075	387	409	374	357	311	350	335	310	2,210	2,263		
33	Primary metals, total.....	10,271	9,791	10,268	11,333	31,392	38,196	35,906	9,426	10,674	10,985	12,133	10,555	12,594	13,055	11,034	81,725		
331	Blast furnaces, steel mills.....	4,365	4,293	4,675	5,385	14,353	17,490	17,371	4,129	4,740	5,002	5,002	4,608	6,656	5,001	37,556	41,116		
333-9	Nonferrous and other primary metals.....	4,969	4,570	4,635	14,074	17,155	15,178	4,472	4,913	4,955	5,302	4,381	5,392	5,123	4,861	39,648	31,431		
34	Fabricated metal prod., total. Metal cans, barrels, and drums.....	8,605	8,406	8,441	9,134	25,981	28,700	27,709	8,033	9,095	9,134	8,477	9,787	9,420	8,889	63,312	63,372		
341	Machinery, except electrical, total.....	786	767	800	820	2,387	2,602	2,312	873	886	838	810	894	933	897	868	5,771	5,403	
35	Engines and turbines.....	13,511	13,822	13,538	13,374	40,734	42,282	40,639	12,283	14,999	13,714	13,768	12,039	16,043	14,251	13,176	97,465		
351	Farm machinery and equipment total.....	1,204	1,140	1,134	992	3,266	3,343	3,272	985	1,232	1,126	1,046	1,043	1,102	1,176	1,143	7,526		
352	Material handling equipment total.....	1,060	1,043	1,087	946	3,076	3,200	3,350	867	1,136	1,168	1,106	1,138	1,106	1,236	1,243	7,666		
353	Construction, mining, and other nonmetallic mineral products.....	2,545	2,565	2,607	2,676	8,499	7,891	2,454	2,694	2,642	2,569	2,796	2,732	2,777	2,777	19,070	18,474		
354	Metalworking machinery.....	781	900	869	855	2,624	2,537	2,682	1,009	874	841	703	876	768	732	6,131	5,339		
356	General industrial machinery total.....	1,146	1,175	1,129	1,225	3,529	3,630	3,504	1,050	1,282	1,154	1,244	981	1,148	1,087	1,082	8,115		

See footnotes at end of table.

Table 1 --Value of Manufacturers' Filled Orders for Industry Groups, Market Categories and Supplement Series

Table 1. - VALUE OF MANUFACTURES, UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES—Continued

SIC	Industry group	Seasonally adjusted										Without seasonal adjustment									
		Monthly					Quarterly					Monthly					Quarterly				
		July 1967	Jan. 1968	May 1968	Sept. 1968	Jan. 1969	I 1970	II 1970	III 1970	IV 1970	I 1971	II 1971	III 1971	IV 1971	Jan. 1972	May 1972	Sept. 1972	Jan. 1973	May 1973	Sept. 1973	
		INDUSTRY GROUPS AND INDUSTRIES—Continued																			
36	Electrical machinery, total.....	38,369	38,830	38,782	38,896	37,464	37,453	34,856	33,865	32,518	31,726	30,802	31,968	33,725	33,276	31,46					
361	Electrical transmission and distribution equipment and apparatus.....	8,013	8,090	8,093	7,994	7,657	7,132	7,208	7,074	6,774	6,486	6,118	7,278	8,242	7,137	7,258					
362	Industrial apparatus.....	332	332	360	294	331	364	357	443	393	337	332	481	499	480	498					
363	Radio and TV.....	18,307	18,267	18,273	18,114	17,742	17,497	16,493	15,935	15,438	14,948	14,296	15,781	16,343	15,345	15,337					
364	Communication equipment.....	10,600	10,792	10,817	11,074	11,034	11,138	9,864	9,114	8,277	7,424	6,993	8,167	9,276	9,352	8,963					
37	Transportation equipment.....	411,072	409,611	408,856	408,876	405,642	402,406	405,868	404,248	400,982	399,287	398,211	398,265	397,821	396,874	395,847					
371	Aircraft, missiles, and parts.....	406,307	405,827	404,894	404,894	401,806	397,429	403,498	402,127	398,276	396,776	395,806	395,243	394,831	393,763	392,763					
372	Shipbuilding and military tanks.....	11,287	11,298	11,090	11,702	11,237	11,297	11,406	10,805	10,704	10,512	11,644	10,948	11,010	11,055	11,052					
373	Instruments and related products.....	6,236	6,295	6,347	6,371	6,419	6,483	5,824	5,507	5,317	5,134	6,349	6,327	6,088	6,044	5,486					
38	All other durable goods industries.....	3,015	3,084	3,284	3,428	3,514	3,311	3,297	3,389	3,395	3,420	3,596	3,601	3,480	3,454	3,375					
Private, Bureau																					

Components and new orders are the basis for the period and are adjusted for trading-day and calendar-month variations. Official errors and inventories are of the end of the period and are not adjusted for trading-day and calendar-month variations.

Supplementary series are groupings of the separate industry categories as follows:
 Household goods industries - Household furniture, kitchen articles and pottery, cutlery, hardware, household appliances, radio and TV, optical goods, watches, and miscellaneous.
 Capital goods industries - The capital goods industries series is comparable to the previous producers' capital goods and the defense products, old scrap categories.
 Nondefense products - Machinery, except electrical (excluding farm machinery and machine shops), electrical and heavy excluding household appliances, radios and TV, and electronic components, the nondefense portion of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and advance.

These products are based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the April 15, Shipments of Defense-Ordered Industries, for the specified industries.

Beginning 1970, the fiscal year for the Federal Government probably affected the timing of contracts and other financial arrangements. Although the impact of this change is not known, the use of previously established seasonal factors and seasonal factors reflect historical Government purchasing patterns. Therefore, beginning in July 1970, new composite seasonal factors were developed by combining the existing end of fiscal year information with data for the fiscal year ending in June 1970. The seasonal factors applied to the unfilled orders data for each of the separately tabulated defense industries. This adjustment also modified the new orders data. Similar adjustments could not be made for nondefense Government orders since such data are not compiled separately. This method of calculating the seasonal factors will be used until a sufficient amount of data are available to assess the impact of the change in the fiscal year in the seasonal pattern of the defense industries.

TABLE 5.—VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP

Industry	Seasonally adjusted										Without seasonal adjustment									
	Monthly					Quarterly					Monthly									
	June 1960	May 1960	Apr. 1960	Mar. 1960	Feb. 1960	Jan. 1960	Dec. 1959	Nov. 1959	Oct. 1959	Sept. 1959	June 1960	May 1960	Apr. 1960	Mar. 1960	Feb. 1960	Jan. 1960	Dec. 1959	Nov. 1959	Oct. 1959	Sept. 1959
(Millions of dollars)																				
All manufacturing industries, total..	244,540	243,402	242,546	238,522	228,758	221,341	213,962	205,752	191,882	184,594	244,501	243,705	243,105	241,818	242,121	240,291	238,818	237,478	236,157	234,846
Durable goods industries, total.....	160,406	160,807	159,877	157,127	151,989	146,946	141,580	135,290	128,482	121,260	160,376	160,275	159,877	158,732	157,541	156,097	154,886	153,685	152,484	151,283
Stone, clay, and glass products.....	10,116	10,141	10,089	9,973	9,848	9,698	9,561	9,426	9,291	9,156	10,116	10,141	10,089	9,973	9,848	9,713	9,578	9,443	9,308	9,173
Primary metal.....	20,684	20,785	20,780	20,387	19,802	19,013	18,318	17,512	16,852	16,041	20,684	20,785	20,780	20,387	19,802	18,998	18,404	17,810	17,216	16,622
Fabricated metal.....	19,586	19,581	19,575	19,402	18,916	18,116	17,312	16,508	15,852	15,041	19,586	19,581	19,575	19,402	18,916	18,008	17,414	16,820	16,226	15,632
Transportation equipment.....	22,092	22,101	22,110	21,920	21,730	21,540	21,350	21,160	20,970	20,780	22,092	22,101	22,110	21,920	21,730	21,540	21,350	21,160	20,970	20,780
Non-durable goods industries, total.....	84,194	83,595	82,669	81,399	79,769	77,394	75,019	72,644	70,269	67,894	84,194	83,595	82,669	81,399	79,769	77,394	75,019	72,644	70,269	67,894
Food and kindred products.....	11,471	11,466	11,461	11,456	11,451	11,446	11,441	11,436	11,431	11,426	11,471	11,466	11,461	11,456	11,451	11,446	11,441	11,436	11,431	11,426
Textile mill and apparel.....	13,434	13,426	13,418	13,410	13,402	13,394	13,386	13,378	13,370	13,362	13,434	13,426	13,418	13,410	13,402	13,394	13,386	13,378	13,370	13,362
Chemical and allied products.....	19,178	19,130	19,082	18,977	18,872	18,767	18,662	18,557	18,452	18,347	19,178	19,130	19,082	18,977	18,872	18,767	18,662	18,557	18,452	18,347
Petroleum and coal products.....	4,400	4,395	4,390	4,385	4,380	4,375	4,370	4,365	4,360	4,355	4,400	4,395	4,390	4,385	4,380	4,375	4,370	4,365	4,360	4,355
Other non-durable goods industries.....	7,313	7,308	7,303	7,298	7,293	7,288	7,283	7,278	7,273	7,268	7,313	7,308	7,303	7,298	7,293	7,288	7,283	7,278	7,273	7,268
All other non-durable goods industries.....	50,593	50,588	50,583	50,578	50,573	50,568	50,563	50,558	50,553	50,548	50,593	50,588	50,583	50,578	50,573	50,568	50,563	50,558	50,553	50,548
All manufacturing industries, total..	82,515	82,007	81,499	80,991	79,483	77,975	76,467	74,959	73,451	71,943	82,515	82,007	81,499	80,991	79,483	77,975	76,467	74,959	73,451	71,943
Durable goods industries, total.....	50,177	50,065	49,953	49,841	49,729	49,617	49,505	49,393	49,281	49,169	50,177	50,065	49,953	49,841	49,729	49,617	49,505	49,393	49,281	49,169
Stone, clay, and glass products.....	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176
Primary metal.....	6,100	6,113	6,126	6,139	6,152	6,165	6,178	6,191	6,204	6,217	6,100	6,113	6,126	6,139	6,152	6,165	6,178	6,191	6,204	6,217
Fabricated metal.....	5,179	5,182	5,185	5,188	5,191	5,194	5,197	5,200	5,203	5,206	5,179	5,182	5,185	5,188	5,191	5,194	5,197	5,200	5,203	5,206
Transportation equipment.....	7,726	7,726	7,726	7,726	7,726	7,726	7,726	7,726	7,726	7,726	7,726	7,726	7,726	7,726	7,726	7,726	7,726	7,726	7,726	7,726
Non-durable goods industries, total.....	32,062	32,042	32,022	32,002	31,982	31,962	31,942	31,922	31,902	31,882	32,062	32,042	32,022	32,002	31,982	31,962	31,942	31,922	31,902	31,882
Food and kindred products.....	4,400	4,395	4,390	4,385	4,380	4,375	4,370	4,365	4,360	4,355	4,400	4,395	4,390	4,385	4,380	4,375	4,370	4,365	4,360	4,355
Textile mill and apparel.....	6,843	6,838	6,833	6,828	6,823	6,818	6,813	6,808	6,803	6,798	6,843	6,838	6,833	6,828	6,823	6,818	6,813	6,808	6,803	6,798
Chemical and allied products.....	1,740	1,735	1,730	1,725	1,720	1,715	1,710	1,705	1,700	1,695	1,740	1,735	1,730	1,725	1,720	1,715	1,710	1,705	1,700	1,695
Petroleum and coal products.....	21,284	21,278	21,272	21,266	21,260	21,254	21,248	21,242	21,236	21,230	21,284	21,278	21,272	21,266	21,260	21,254	21,248	21,242	21,236	21,230
All other non-durable goods industries.....	86,530	86,524	86,518	86,512	86,506	86,500	86,494	86,488	86,482	86,476	86,530	86,524	86,518	86,512	86,506	86,494	86,488	86,482	86,476	86,470
Durable goods industries, total.....	71,847	71,841	71,835	71,829	71,823	71,817	71,811	71,805	71,799	71,793	71,847	71,841	71,835	71,829	71,823	71,817	71,811	71,805	71,799	71,793
Stone, clay, and glass products.....	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176
Primary metal.....	6,100	6,113	6,126	6,139	6,152	6,165	6,178	6,191	6,204	6,217	6,100	6,113	6,126	6,139	6,152	6,165	6,178	6,191	6,204	6,217
Fabricated metal.....	5,179	5,182	5,185	5,188	5,191	5,194	5,197	5,200	5,203	5,206	5,179	5,182	5,185	5,188	5,191	5,194	5,197	5,200	5,203	5,206
Transportation equipment.....	20,262	20,262	20,262	20,262	20,262	20,262	20,262	20,262	20,262	20,262	20,262	20,262	20,262	20,262	20,262	20,262	20,262	20,262	20,262	20,262
Non-durable goods industries, total.....	12,718	12,718	12,718	12,718	12,718	12,718	12,718	12,718	12,718	12,718	12,718	12,718	12,718	12,718	12,718	12,718	12,718	12,718	12,718	12,718
Food and kindred products.....	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176
Textile mill and apparel.....	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542
Chemical and allied products.....	1,740	1,735	1,730	1,725	1,720	1,715	1,710	1,705	1,700	1,695	1,740	1,735	1,730	1,725	1,720	1,715	1,710	1,705	1,700	1,695
Petroleum and coal products.....	21,284	21,278	21,272	21,266	21,260	21,254	21,248	21,242	21,236	21,230	21,284	21,278	21,272	21,266	21,260	21,254	21,248	21,242	21,236	21,230
All other non-durable goods industries.....	77,687	77,681	77,675	77,669	77,663	77,657	77,651	77,645	77,639	77,633	77,687	77,681	77,675	77,669	77,663	77,657	77,651	77,645	77,639	77,633
Durable goods industries, total.....	38,673	38,667	38,661	38,655	38,649	38,643	38,637	38,631	38,625	38,619	38,673	38,667	38,661	38,655	38,649	38,643	38,637	38,631	38,625	38,619
Stone, clay, and glass products.....	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176
Primary metal.....	6,100	6,113	6,126	6,139	6,152	6,165	6,178	6,191	6,204	6,217	6,100	6,113	6,126	6,139	6,152	6,165	6,178	6,191	6,204	6,217
Fabricated metal.....	5,179	5,182	5,185	5,188	5,191	5,194	5,197	5,200	5,203	5,206	5,179	5,182	5,185	5,188	5,191	5,194	5,197	5,200	5,203	5,206
Transportation equipment.....	10,185	10,185	10,185	10,185	10,185	10,185	10,185	10,185	10,185	10,185	10,185	10,185	10,185	10,185	10,185	10,185	10,185	10,185	10,185	10,185
Non-durable goods industries, total.....	38,662	38,656	38,650	38,644	38,638	38,632	38,626	38,620	38,614	38,608	38,662	38,656	38,650	38,644	38,638	38,632	38,626	38,620	38,614	38,608
Food and kindred products.....	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176	2,176
Textile mill and apparel.....	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542	4,542
Chemical and allied products.....	1,740	1,735	1,730	1,725	1,720	1,715	1,710	1,705	1,700	1,695	1,740	1,735	1,730	1,725	1,720	1,715	1,710	1,705	1,700	1,695
Petroleum and coal products.....	21,284	21,278	21,272	21,266	21,260	21,254	21,248	21,242	21,236	21,230	21,284	21,278	21,272	21,266	21,260	21,254	21,248	21,242	21,236	21,230
All other non-durable goods industries.....	22,577	22,571	22,565	22,559	22,553	22,547	22,541	22,535	22,529	22,523	22,577	22,571	22,565	22,559	22,553	22,547	22,541	22,535	22,529	22,523

Continued

Table 6. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS--MONTH TO MONTH AND LONG-TERM PERCENT CHANGES

(Based on seasonally adjusted data)

Item and industry group	Month-to-month			Average monthly rates of change				Average, 1975-1979	
	June- July 1980	May- June 1980	Apr.- May 1980	3 months			12 months July 1979- July 1980	Average rise	Average decline
				April- July 1980	Jan.- April 1980	Oct. 1979- Jan. 1980			
Shipments:									
All manufacturing industries.....	+2.7	0.0	-1.4	+0.4	-1.9	+1.5	+0.2	+1.6	-1.2
Durable goods industries.....	+4.2	-0.6	-3.8	-0.1	-2.5	+1.1	-0.2	+1.9	-1.9
Nondurable goods industries.....	+1.3	+0.6	+1.0	+1.0	-1.3	+1.9	+0.6	+1.6	-0.7
Inventories:									
All manufacturing industries.....	+0.4	0.0	+0.4	+0.3	+1.5	+1.3	+1.0	+0.7	-0.3
New orders:									
All manufacturing industries.....	+5.7	-0.2	-3.1	+0.7	-2.7	+2.0	+0.2	+1.9	-1.2
Durable goods industries.....	+10.3	-1.3	-7.0	+0.4	-3.8	+2.1	-0.1	+2.8	-2.0
Nondurable goods industries.....	+1.4	+0.7	+1.0	+1.0	-1.5	+1.9	+0.6	+1.5	-0.7
Unfilled orders:									
Durable goods industries.....	+0.5	-1.0	-0.8	-0.4	+0.5	+1.1	+0.4	+1.2	-0.9

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	July 1980	June 1980	May 1980	April 1980	July 1980	June 1980	May 1980	April 1980
All manufacturing industries.....	1.68	1.72	1.72	1.69	3.72	3.82	3.83	3.75
Durable goods industries.....	2.24	2.32	2.31	2.21	4.52	4.60	4.61	4.50
Stone, clay, and glass products.....	1.49	1.62	1.60	1.54	0.73	0.79	0.83	0.81
Primary metals.....	2.03	2.13	2.08	1.83	2.49	2.57	2.53	2.46
Fabricated metals.....	2.24	2.31	2.35	2.16	3.58	3.67	3.71	3.42
Machinery, except electrical.....	2.42	2.82	2.89	2.89	4.54	4.44	4.61	4.69
Electrical machinery.....	2.20	2.21	2.18	2.23	3.85	3.92	3.86	3.93
Transportation equipment.....	2.25	2.52	2.42	2.25	13.27	14.02	13.71	13.05
Instruments and related products.....	2.46	2.51	2.50	2.54	1.82	1.88	1.92	1.95
Nondurable goods industries.....	1.14	1.15	1.15	1.16	0.66	0.71	0.74	0.76
Food and kindred products.....	0.98	0.98	1.00	1.06	(X)	(X)	(X)	(X)
Tobacco products.....	2.99	3.49	3.10	2.89	(X)	(X)	(X)	(X)
Textile-mill products.....	1.48	1.54	1.54	1.47	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.25	1.32	1.32	1.27	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.49	1.55	1.53	1.48	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.66	0.59	0.57	0.59	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.28	1.41	1.51	1.45	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. ^RRevised. (X) Not applicable.

¹Includes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976 and issued in the report M3-1.7 released in March 1978. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973 in the M3-1.6 benchmark publication released in December 1976.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.

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Manufacturers' Shipments, Inventories, and Orders

AUGUST 1980

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U.S. Department of Commerce
BUREAU OF THE CENSUS

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in August increased \$0.5 billion or 0.3 percent to \$147.4 billion the Department of Commerce, Bureau of the Census reported today. An increase in orders for nondurable goods more than offset a \$1.1 billion or 1.5 percent decline in durable goods orders.

The decline in durable goods orders, which followed a large increase in July of 11.3 percent, was caused mostly by the aircraft industries. New orders for aircraft and parts dropped \$2.4 billion or 41 percent to \$3.3 billion, after an 18 percent increase last month. Excluding the aircraft industries, durable goods orders showed an increase of 1.8 percent.

The most significant increases in durable goods new orders came from the electrical machinery and steel industries. Orders for electrical machinery were up \$1.2 billion or 12.6 percent to \$10.9 billion, while new orders reported by steel producers increased \$1.0 billion or 20 percent to \$5.7 billion. This is the third consecutive month a significant increase has been reported in steel orders.

In the capital goods industries, new orders for nondefense capital goods declined \$1.3 billion or 6.0 percent to \$20.3 billion. A decrease in commercial aircraft and parts orders accounted for over two-thirds of the decline. Excluding aircraft, orders for nondefense capital goods were down 0.6 percent, with increases in electrical machinery orders offsetting declines in the nonelectrical machinery category. New orders for defense capital goods were down \$0.4 billion or 8.2 percent to \$4.0 billion. Here also a decline in the aircraft industry more than offset increases in the other defense categories.

Shipments of manufactured goods in August increased \$1.8 billion or 1.2 percent to \$147.2 billion. This followed a \$3.9 billion or 2.7 percent increase in July. In the durable goods industries shipments increased \$0.5 billion or 0.7 percent to \$72.8 billion. Primary metal shipments totaled \$10.7 billion, for a \$0.5 billion or 4.7 percent increase; electrical and nonelectrical machinery shipments totaled \$24.4 billion for a \$0.4 billion or 1.8 percent increase.

In the transportation equipment industries all categories except shipbuilding had declines in shipments. Aircraft and parts shipments were down \$0.3 billion or 6.4 percent to \$4.0 billion, while motor vehicle and parts shipments¹ were down \$0.1 billion or 1.2 percent to \$8.5 billion.

¹ Motor vehicle assembly plants close down for retooling, generally during July, August, and September, for the forthcoming model year.

Shipments by the household durable goods industries declined \$0.1 billion or 2.3 percent to \$4.7 billion. An increase in July shipments of household durable goods of 5.1 percent followed 4 consecutive months of decline.

Shipments by the nondurable goods industries increased \$1.3 billion or 1.8 percent to \$74.4 billion. The foods category was up \$0.9 billion or 4.4 percent; petroleum, up \$0.5 billion or 3.3 percent; chemicals, up \$0.4 billion or 3.4 percent; and rubber and plastics products, up \$0.2 billion or 4.3 percent. All other nondurable categories had declines.

The value of manufacturers' orders backlogs in August stood at \$282.6 billion, virtually unchanged from July. Since December 1979 when the backlog level was at \$279.7 billion, its value has increased only 0.1 percent per month as compared to the average monthly increase for all of 1979 of 1.3 percent.

Industries reporting significant increases in backlog in August were steel, up \$1.0 billion or 6.9 percent; electrical machinery, up \$0.5 billion or 1.4 percent; and shipbuilding and military up \$0.4 billion or 3.6 percent. Virtually all other industries reported declines.

The book value of manufacturers' inventories declined \$0.5 billion or 0.2 percent in August to \$243.6 billion. This is the first monthly decline reported since the 0.2 percent decline recorded in December 1975. The August inventory decline resulted from a billion dollar drop in the value of nondurable goods inventories. All nondurable goods categories except foods reported decreases. The value of inventories of durable goods manufacturers increased \$0.5 billion or 0.3 percent in August. Excluding the aircraft industries inventories of durable goods manufacturers also had a slight decline.

The figures on the durable goods industries in this report supersede those issued earlier this month. The present report is based on more complete reporting, but is still considered preliminary. Final figures will appear in the full report scheduled for release on October 31. The advance report on durable goods for September is scheduled for release on October 22.

Year-to-year variations in both the timing and duration of the model changeover period are sufficiently great that the normal seasonal adjustment procedures do not adequately identify the seasonality during the period and may introduce substantial erratic movement. To compensate for this, the estimated seasonally adjusted monthly average for the quarter is used for the seasonally adjusted data in each of the 3 months. These seasonally adjusted data are recompiled each month as additional information is received. The seasonally unadjusted automotive data are not subject to any special estimating procedure.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1.—VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES—Continued
(Billions of dollars)

SIC	Industry	Seasonally adjusted				Quarterly				Monthly				1979	
		Months				1978				1978					
		Aug 1980P	July 1980P	June 1980	May 1980	II 1978	I 1978	IV 1978	III 1978	Dec 1978	Nov 1978	Oct 1978	Sep 1978		
INDUSTRY GROUPS AND INDUSTRIES—Continued															
36	Electrical machinery, total...	10,338	1,485	1,483	1,494	2,434	1,438	2,432	1,433	1,430	1,428	1,426	1,424	1979	
3612	Household electrical appliances...	1,711	1,477	1,476	1,476	3,078	3,358	3,073	1,633	1,641	1,639	1,637	1,635	1979	
362	Industrial machinery, equipment, and...	1,101	1,472	1,471	1,471	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
363	Household appliances...	1,101	1,472	1,471	1,471	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
364	Radio and TV...	1,101	1,472	1,471	1,471	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
365	Communications equipment...	1,101	1,472	1,471	1,471	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
366	Electronic components...	1,101	1,472	1,471	1,471	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
37	Transportation equipment...	1,436	1,451	1,450	1,450	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
371	Motor vehicles and parts...	8,388	8,245	8,245	8,245	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
372	Aircraft, missiles, and...	3,889	4,262	4,262	4,262	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
3731	Shipbuilding and ship-repair...	882	886	886	886	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
3735	Trucks, trailers, and...	882	886	886	886	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
38	Transportation equipment...	1,436	1,451	1,450	1,450	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
381	Motor vehicles and parts...	1,436	1,451	1,450	1,450	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
382	Aircraft, missiles, and...	1,436	1,451	1,450	1,450	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
383	Shipbuilding and ship-repair...	1,436	1,451	1,450	1,450	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
384	Trucks, trailers, and...	1,436	1,451	1,450	1,450	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
39	All other durable goods...	7,950	7,950	7,950	7,950	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
40	Non-durable goods, total...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
401	Food and kindred products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
402	Textiles and apparel...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
403	Leather and leather products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
404	Stone, clay, and glass products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
405	Chemical and allied products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
406	Plastics, rubber, and synthetic...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
407	Nonmetallic mineral products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
408	Metals and metal products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
409	Primary metal industries...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
41	Food and kindred products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
411	Food and kindred products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
412	Food and kindred products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
413	Food and kindred products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
414	Food and kindred products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
415	Food and kindred products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
416	Food and kindred products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
417	Food and kindred products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
418	Food and kindred products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
419	Food and kindred products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
42	Textiles and apparel...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
421	Textiles and apparel...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
422	Textiles and apparel...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
423	Textiles and apparel...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
424	Textiles and apparel...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
425	Textiles and apparel...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
426	Textiles and apparel...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
427	Textiles and apparel...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
428	Textiles and apparel...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
429	Textiles and apparel...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
43	Leather and leather products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
431	Leather and leather products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
432	Leather and leather products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
433	Leather and leather products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
434	Leather and leather products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
435	Leather and leather products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
436	Leather and leather products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
437	Leather and leather products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
438	Leather and leather products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
439	Leather and leather products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
44	Stone, clay, and glass products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
441	Stone, clay, and glass products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
442	Stone, clay, and glass products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
443	Stone, clay, and glass products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
444	Stone, clay, and glass products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
445	Stone, clay, and glass products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
446	Stone, clay, and glass products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
447	Stone, clay, and glass products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
448	Stone, clay, and glass products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
449	Stone, clay, and glass products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
45	Chemical and allied products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
451	Chemical and allied products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
452	Chemical and allied products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
453	Chemical and allied products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
454	Chemical and allied products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
455	Chemical and allied products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
456	Chemical and allied products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
457	Chemical and allied products...	1,876	1,876	1,876	1,876	3,377	3,542	3,371	1,611	1,619	1,617	1,615	1,613	1979	
458	Chemical and allied products...	1,876													

Table 2. Major industries, 1950-1959. (All figures in millions of rubles, unless otherwise indicated.)

Industry	1950-1959					1950-1959					1950-1959				
	Production					Investment					Production				
	Value 1950	Value 1959	Index 1959/50	1950-59 annual growth	1950-59 annual growth	Value 1950	Value 1959	Index 1959/50	1950-59 annual growth	1950-59 annual growth	Value 1950	Value 1959	Index 1959/50	1950-59 annual growth	1950-59 annual growth
All major industries															
1. All major industries	10,487	18,425	175.8	6.2	6.2	1,048.7	1,842.5	175.8	6.2	6.2	10,487	18,425	175.8	6.2	6.2
2. Non-metallic minerals	1,014	1,815	179.0	6.2	6.2	101.4	1,815	179.0	6.2	6.2	1,014	1,815	179.0	6.2	6.2
3. Metallic minerals	5,000	8,400	168.0	6.2	6.2	500.0	8,400	168.0	6.2	6.2	5,000	8,400	168.0	6.2	6.2
4. Chemicals	1,800	3,200	177.8	6.2	6.2	180.0	3,200	177.8	6.2	6.2	1,800	3,200	177.8	6.2	6.2
5. Textiles	600	1,000	166.7	6.2	6.2	60.0	1,000	166.7	6.2	6.2	600	1,000	166.7	6.2	6.2
6. Food	1,000	1,500	150.0	6.2	6.2	100.0	1,500	150.0	6.2	6.2	1,000	1,500	150.0	6.2	6.2
7. Light industry	1,000	1,500	150.0	6.2	6.2	100.0	1,500	150.0	6.2	6.2	1,000	1,500	150.0	6.2	6.2
8. Heavy industry	1,000	1,500	150.0	6.2	6.2	100.0	1,500	150.0	6.2	6.2	1,000	1,500	150.0	6.2	6.2
9. Transport	1,000	1,500	150.0	6.2	6.2	100.0	1,500	150.0	6.2	6.2	1,000	1,500	150.0	6.2	6.2
10. Power	1,000	1,500	150.0	6.2	6.2	100.0	1,500	150.0	6.2	6.2	1,000	1,500	150.0	6.2	6.2
11. Machinery	1,000	1,500	150.0	6.2	6.2	100.0	1,500	150.0	6.2	6.2	1,000	1,500	150.0	6.2	6.2
12. Instruments	1,000	1,500	150.0	6.2	6.2	100.0	1,500	150.0	6.2	6.2	1,000	1,500	150.0	6.2	6.2
13. Other	1,000	1,500	150.0	6.2	6.2	100.0	1,500	150.0	6.2	6.2	1,000	1,500	150.0	6.2	6.2
Non-metallic minerals															
1. Non-metallic minerals	1,014	1,815	179.0	6.2	6.2	101.4	1,815	179.0	6.2	6.2	1,014	1,815	179.0	6.2	6.2
2. Fuel	1,014	1,815	179.0	6.2	6.2	101.4	1,815	179.0	6.2	6.2	1,014	1,815	179.0	6.2	6.2
3. Chemicals	1,014	1,815	179.0	6.2	6.2	101.4	1,815	179.0	6.2	6.2	1,014	1,815	179.0	6.2	6.2
4. Textiles	1,014	1,815	179.0	6.2	6.2	101.4	1,815	179.0	6.2	6.2	1,014	1,815	179.0	6.2	6.2
5. Food	1,014	1,815	179.0	6.2	6.2	101.4	1,815	179.0	6.2	6.2	1,014	1,815	179.0	6.2	6.2
6. Light industry	1,014	1,815	179.0	6.2	6.2	101.4	1,815	179.0	6.2	6.2	1,014	1,815	179.0	6.2	6.2
7. Heavy industry	1,014	1,815	179.0	6.2	6.2	101.4	1,815	179.0	6.2	6.2	1,014	1,815	179.0	6.2	6.2
8. Transport	1,014	1,815	179.0	6.2	6.2	101.4	1,815	179.0	6.2	6.2	1,014	1,815	179.0	6.2	6.2
9. Power	1,014	1,815	179.0	6.2	6.2	101.4	1,815	179.0	6.2	6.2	1,014	1,815	179.0	6.2	6.2
10. Machinery	1,014	1,815	179.0	6.2	6.2	101.4	1,815	179.0	6.2	6.2	1,014	1,815	179.0	6.2	6.2
11. Instruments	1,014	1,815	179.0	6.2	6.2	101.4	1,815	179.0	6.2	6.2	1,014	1,815	179.0	6.2	6.2
12. Other	1,014	1,815	179.0	6.2	6.2	101.4	1,815	179.0	6.2	6.2	1,014	1,815	179.0	6.2	6.2
Metallic minerals															
1. Metallic minerals	5,000	8,400	168.0	6.2	6.2	500.0	8,400	168.0	6.2	6.2	5,000	8,400	168.0	6.2	6.2
2. Fuel	5,000	8,400	168.0	6.2	6.2	500.0	8,400	168.0	6.2	6.2	5,000	8,400	168.0	6.2	6.2
3. Chemicals	5,000	8,400	168.0	6.2	6.2	500.0	8,400	168.0	6.2	6.2	5,000	8,400	168.0	6.2	6.2
4. Textiles	5,000	8,400	168.0	6.2	6.2	500.0	8,400	168.0	6.2	6.2	5,000	8,400	168.0	6.2	6.2
5. Food	5,000	8,400	168.0	6.2	6.2	500.0	8,400	168.0	6.2	6.2	5,000	8,400	168.0	6.2	6.2
6. Light industry	5,000	8,400	168.0	6.2	6.2	500.0	8,400	168.0	6.2	6.2	5,000	8,400	168.0	6.2	6.2
7. Heavy industry	5,000	8,400	168.0	6.2	6.2	500.0	8,400	168.0	6.2	6.2	5,000	8,400	168.0	6.2	6.2
8. Transport	5,000	8,400	168.0	6.2	6.2	500.0	8,400	168.0	6.2	6.2	5,000	8,400	168.0	6.2	6.2
9. Power	5,000	8,400	168.0	6.2	6.2	500.0	8,400	168.0	6.2	6.2	5,000	8,400	168.0	6.2	6.2
10. Machinery	5,000	8,400	168.0	6.2	6.2	500.0	8,400	168.0	6.2	6.2	5,000	8,400	168.0	6.2	6.2
11. Instruments	5,000	8,400	168.0	6.2	6.2	500.0	8,400	168.0	6.2	6.2	5,000	8,400	168.0	6.2	6.2
12. Other	5,000	8,400	168.0	6.2	6.2	500.0	8,400	168.0	6.2	6.2	5,000	8,400	168.0	6.2	6.2
Chemicals															
1. Chemicals	1,800	3,200	177.8	6.2	6.2	180.0	3,200	177.8	6.2	6.2	1,800	3,200	177.8	6.2	6.2
2. Fuel	1,800	3,200	177.8	6.2	6.2	180.0	3,200	177.8	6.2	6.2	1,800	3,200	177.8	6.2	6.2
3. Chemicals	1,800	3,200	177.8	6.2	6.2	180.0	3,200	177.8	6.2	6.2	1,800	3,200	177.8	6.2	6.2
4. Textiles	1,800	3,200	177.8	6.2	6.2	180.0	3,200	177.8	6.2	6.2	1,800	3,200	177.8	6.2	6.2
5. Food	1,800	3,200	177.8	6.2	6.2	180.0	3,200	177.8	6.2	6.2	1,800	3,200	177.8	6.2	6.2
6. Light industry	1,800	3,200	177.8	6.2	6.2	180.0	3,200	177.8	6.2	6.2	1,800	3,200	177.8	6.2	6.2
7. Heavy industry	1,800	3,200	177.8	6.2	6.2	180.0	3,200	177.8	6.2	6.2	1,800	3,200	177.8	6.2	6.2
8. Transport	1,800	3,200	177.8	6.2	6.2	180.0	3,200	177.8	6.2	6.2	1,800	3,200	177.8	6.2	6.2
9. Power	1,800	3,200	177.8	6.2	6.2	180.0	3,200	177.8	6.2	6.2	1,800	3,200	177.8	6.2	6.2
10. Machinery	1,800	3,200	177.8	6.2	6.2	180.0	3,200	177.8	6.2	6.2	1,800	3,200	177.8	6.2	6.2
11. Instruments	1,800	3,200	177.8	6.2	6.2	180.0	3,200	177.8	6.2	6.2	1,800	3,200	177.8	6.2	6.2
12. Other	1,800	3,200	177.8	6.2	6.2	180.0	3,200	177.8	6.2	6.2	1,800	3,200	177.8	6.2	6.2
Textiles															
1. Textiles	600	1,000	166.7	6.2	6.2	60.0	1,000	166.7	6.2	6.2	600	1,000	166.7	6.2	6.2
2. Fuel	600	1,000	166.7	6.2	6.2	60.0	1,000	166.7	6.2	6.2	600	1,000	166.7	6.2	6.2
3. Chemicals	600	1,000	166.7	6.2	6.2	60.0	1,000	166.7	6.2	6.2	600	1,000	166.7	6.2	6.2
4. Textiles	600	1,000	166.7	6.2	6.2	60.0	1,000	166.7	6.2	6.2	600	1,000	166.7	6.2	6.2
5. Food	600	1,000	166.7	6.2	6.2	60.0	1,000	166.7	6.2	6.2	600	1,000	166.7	6.2	6.2
6. Light industry	600	1,000	166.7	6.2	6.2	60.0	1,000	166.7	6.2	6.2	600	1,000	166.7	6.2	6.2
7. Heavy industry	600	1,000	166.7	6.2	6.2	60.0	1,000	166.7	6.2	6.2	600	1,000	166.7	6.2	6.2
8. Transport	600	1,000	166.7	6.2	6.2	60.0	1,000	166.7	6.2	6.2	600	1,000	166.7	6.2	6.2
9. Power	600	1,000	166.7	6.2	6.2	60.0	1,000	166.7	6.2	6.2	600	1,000	166.7	6.2	6.2
10. Machinery	600	1,000	166.7	6.2	6.2	60.0	1,000	166.7	6.2	6.2	600	1,000	166.7	6.2	6.2
11. Instruments	600	1,000	166.7	6.2	6.2	60.0	1,000	166.7	6.2	6.2	600	1,000	166.7	6.2	6.2
12. Other	600	1,000	166.7	6.2	6.2	60.0	1,000	166.7	6.2	6.2	600	1,000	166.7	6.2	6.2
Food															
1. Food	1,000	1,500	150.0	6.2	6.2	100.0	1,500	150.0	6.2	6.2	1,000	1,500	150.0	6.2	6.2
2. Fuel	1,000	1,500	150.0	6.2	6.2	100.0	1,500	150.0	6.2	6.2	1,000	1,500	150.0	6.2	6.2
3. Chemicals	1,000	1,500	150.0	6.2	6.2	100.0	1,500	150.0	6.2	6.2	1,000	1,500	150.0	6.2	6.2
4. Textiles	1,000	1,500	150.0	6.2	6.2	100.0	1,500	150.0	6.2	6.2	1,000	1,500	150.0	6.2	6.2
5. Food	1,000	1,500	150.0	6.2	6.2	100.0	1,500	150.0	6.2	6.2	1,000	1,500	150.0	6.2	6.2
6. Light industry	1,000	1,500	150.0	6.2	6.2	100.0	1,500	150.0	6.2	6.2	1,000	1,500	150.0	6.2	6.2
7. Heavy industry	1,000	1,500	150.0	6.2	6.2	100.0	1,500	150.0	6.2	6.2	1,000	1,500	150.0	6.2	6.2
8. Transport	1,000	1,500	150.0	6.2	6.2	100.0	1,500	150.0	6.2	6.2	1,000	1,500	150.0	6.2	6.2
9. Power	1,000	1,500	150.0	6.2	6.2	100.0	1,500	150.0	6.2	6.2	1,000	1,500	150.0	6.2	6.2
10. Machinery	1,000	1,500	150.0	6.2	6.2	100.0	1,500	150.0	6.2	6.2	1,000	1,500	150.0	6.2	6.2
11. Instruments	1,000														

Table 2.-VALUE OF MANUFACTURES, NEW ORDERS FOR INDUSTRY GOODS, MARKET ORDERS, AND SUPPLEMENTARY ORDERS--Continued

Values in \$ billions

SIC	Industry	MONTHLY ADJUSTED					QUARTERS					YEARLY				
		MONTHLY ADJUSTED					QUARTERS					YEARLY				
		MONTHLY ADJUSTED					QUARTERS					YEARLY				
		Aug. 1988	July 1988	June 1988	May 1988	IV 1987	Aug. 1988	July 1988	June 1988	May 1988	IV 1987	Aug. 1988	July 1988	June 1988	May 1988	IV 1987
MANUFACTURING AND SUPPLEMENTARY INDUSTRIES																
2	Electrical machinery, total...	10,893	9,677	9,941	10,022	30,700	33,175	29,387	10,632	8,883	10,576	9,646	9,651	8,423	9,307	76,112
20	Electrical transmission and distribution equipment...	1,679	1,690	1,703	1,636	5,169	5,485	5,146	1,629	1,489	1,784	1,582	1,730	1,653	1,887	13,959
201	Industrial machinery...	1,160	1,024	1,063	1,011	3,173	3,140	3,139	1,191	1,030	1,165	1,025	1,094	1,047	1,180	8,662
202	Household appliances...	792	689	661	690	1,907	2,075	1,498	846	569	743	582	654	636	935	5,032
203	Communication equipment...	3,797	2,998	3,163	3,312	10,029	10,574	8,497	3,576	2,890	3,313	3,142	2,715	2,367	2,742	21,662
204	Electronic equipment...	1,738	1,620	1,721	1,677	5,276	6,044	5,484	1,684	1,435	1,651	1,722	1,722	1,596	1,790	13,804
205	Transportation equipment...	13,643	16,113	12,472	14,320	44,502	48,798	49,245	10,978	14,289	13,767	13,745	13,526	14,959	18,723	146,438
206	Aircraft, missiles, and spacecraft...	3,329	5,682	4,810	6,188	19,574	15,588	15,956	2,938	5,731	4,904	5,104	4,430	4,888	5,761	34,450
207	Transportation and military equipment...	1,282	824	504	859	2,427	2,295	2,497	1,000	809	673	706	684	619	452	7,040
208	Transportation and related products...	3,494	3,317	3,265	3,360	9,779	11,096	9,721	3,327	3,038	3,587	3,245	3,117	3,433	3,402	27,281
209	All other miscellaneous industries...	7,070	7,207	6,941	6,444	20,325	23,657	23,493	7,506	6,764	7,296	6,710	8,130	7,200	7,964	77,759

Source: Bureau of Economic Analysis.

Data are preliminary.

Seasonally adjusted.

Values are in \$ billions.

Includes supplementary industries.

Includes supplementary industries.

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Table 1. The main types of goods and services in the structure of the total gross regional product of the Republic of Kazakhstan, 1990-1995

Year	Structure of the total gross regional product of the Republic of Kazakhstan, %									
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total gross regional product										
1. Agriculture, hunting and forestry	10.1	9.8	9.5	9.2	8.9	8.6	8.3	8.0	7.7	7.4
2. Industry and construction	45.2	46.1	47.0	47.8	48.5	49.2	49.9	50.6	51.3	52.0
3. Trade, restaurants and hotels, and other services	25.1	25.5	25.9	26.3	26.7	27.1	27.5	27.9	28.3	28.7
4. Transport and communication	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1
5. Health, education, culture, recreation and other services	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7
6. Government administration and other services	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4
7. Taxes on products	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4
8. Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Structure of the total gross regional product of the Republic of Kazakhstan, %										
1. Agriculture, hunting and forestry	10.1	9.8	9.5	9.2	8.9	8.6	8.3	8.0	7.7	7.4
2. Industry and construction	45.2	46.1	47.0	47.8	48.5	49.2	49.9	50.6	51.3	52.0
3. Trade, restaurants and hotels, and other services	25.1	25.5	25.9	26.3	26.7	27.1	27.5	27.9	28.3	28.7
4. Transport and communication	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1
5. Health, education, culture, recreation and other services	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7
6. Government administration and other services	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4
7. Taxes on products	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4
8. Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: Author's calculations.

(Millions of dollars)

SIC	Industry group	MONTHLY					SEASONALLY ADJUSTED					QUARTERLY					ANNUALLY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		1980P		1981	1980	1979	1978		1977		1976		1975		1974		1973		1972		1971		1970		1969		1968		1967		1966		1965		1964		1963		1962		1961		1960		1959		1958		1957		1956		1955		1954		1953		1952		1951		1950		1949		1948		1947		1946		1945		1944		1943		1942		1941		1940		1939		1938		1937		1936		1935		1934		1933		1932		1931		1930		1929		1928		1927		1926		1925		1924		1923		1922		1921		1920		1919		1918		1917		1916		1915		1914		1913		1912		1911		1910		1909		1908		1907		1906		1905		1904		1903		1902		1901		1900		1899		1898		1897		1896		1895		1894		1893		1892		1891		1890		1889		1888		1887		1886		1885		1884		1883		1882		1881		1880		1879		1878		1877		1876		1875		1874		1873		1872		1871		1870		1869		1868		1867		1866		1865		1864		1863		1862		1861		1860		1859		1858		1857		1856		1855		1854		1853		1852		1851		1850		1849		1848		1847		1846		1845		1844		1843		1842		1841		1840		1839		1838		1837		1836		1835		1834		1833		1832		1831		1830		1829		1828		1827		1826		1825		1824		1823		1822		1821		1820		1819		1818		1817		1816		1815		1814		1813		1812		1811		1810		1809		1808		1807		1806		1805		1804		1803		1802		1801		1800		1799		1798		1797		1796		1795		1794		1793		1792		1791		1790		1789		1788		1787		1786		1785		1784		1783		1782		1781		1780		1779		1778		1777		1776		1775		1774		1773		1772		1771		1770		1769		1768		1767		1766		1765		1764		1763		1762		1761		1760		1759		1758		1757		1756		1755		1754		1753		1752		1751		1750		1749		1748		1747		1746		1745		1744		1743		1742		1741		1740		1739		1738		1737		1736		1735		1734		1733		1732		1731		1730		1729		1728		1727		1726		1725		1724		1723		1722		1721		1720		1719		1718		1717		1716		1715		1714		1713		1712		1711		1710		1709		1708		1707		1706		1705		1704		1703		1702		1701		1700		1699		1698		1697		1696		1695		1694		1693		1692		1691		1690		1689		1688		1687		1686		1685		1684		1683		1682		1681		1680		1679		1678		1677		1676		1675		1674		1673		1672		1671		1670		1669		1668		1667		1666		1665		1664		1663		1662		1661		1660		1659		1658		1657		1656		1655		1654		1653		1652		1651		1650		1649		1648		1647		1646		1645		1644		1643		1642		1641		1640		1639		1638		1637		1636		1635		1634		1633		1632		1631		1630		1629		1628		1627		1626		1625		1624		1623		1622		1621		1620		1619		1618		1617		1616		1615		1614		1613		1612		1611		1610		1609		1608		1607		1606		1605		1604		1603		1602		1601		1600		1599		1598		1597		1596		1595		1594		1593		1592		1591		1590		1589		1588		1587		1586		1585		1584		1583		1582		1581		1580		1579		1578		1577		1576		1575		1574		1573		1572		1571		1570		1569		1568		1567		1566		1565		1564		1563		1562		1561		1560		1559		1558		1557		1556		1555		1554		1553		1552		1551		1550		1549		1548		1547		1546		1545		1544		1543		1542		1541		1540		1539		1538		1537		1536		1535		1534		1533		1532		1531		1530		1529		1528		1527		1526		1525		1524		1523		1522		1521		1520		1519		1518		1517		1516		1515		1514		1513		1512		1511		1510		1509		1508		1507		1506		1505		1504		1503		1502		1501		1500		1499		1498		1497		1496		1495		1494		1493		1492		1491		1490		1489		1488		1487		1486		1485		1484		1483		1482		1481		1480		1479		1478		1477		1476		1475		1474		1473		1472		1471		1470		1469		1468		1467		1466		1465		1464		1463		1462		1461		1460		1459		1458		1457		1456		1455		1454		1453		1452		1451		1450		1449		1448		1447		1446		1445		1444		1443		1442		1441		1440		1439		1438		1437		1436		1435		1434		1433		1432		1431		1430		1429		1428		1427		1426		1425		1424		1423		1422		1421		1420		1419		1418		1417		1416		1415		1414		1413		1412		1411		1410		1409		1408		1407		1406		1405		1404		1403		1402		1401		1400		1399		1398		1397		1396		1395		1394		1393		1392		1391		1390		1389		1388		1387		1386		1385		1384		1383		1382		1381		1380		1379		1378		1377		1376		1375		1374		1373		1372		1371		1370		1369		1368		1367		1366		1365		1364		1363		1362		1361		1360		1359		1358		1357		1356		1355		1354		1353		1352		1351		1350		1349		1348		1347		1346		1345		1344		1343		1342		1341		1340		1339		1338		1337		1336		1335		1334		1333		1332		1331		1330		1329		1328		1327		1326		1325		1324		1323		1322		1321		1320		1319		1318		1317		1316		1315		1314		1313		1312		1311		1310		1309		1308		1307		1306		1305		1304		1303		1302		1301		1300		1299		1298		1297		1296		1295		1294		1293		1292		1291		1290		1289		1288		1287		1286		1285		1284		1283		1282		1281		1280		1279		1278		1277		1276		1275		1274		1273		1272		1271		1270		1269		1268		1267		1266		1265		1264		1263		1262		1261		1260		1259		1258		1257		1256		1255		1254		1253		1252		1251		1250		1249		1248		1247		1246		1245		1244		1243		1242		1241		1240		1239		1238		1237		1236		1235		1234		1233		1232		1231		1230		1229		1228		1227		1226		1225		1224		1223		1222		1221		1220		1219		1218		1217		1216		1215		1214		1213		1212		1211		1210		1209		1208		1207		1206		1205		1204		1203		1202		1201		1200		1199		1198		1197		1196		1195		1194		1193		1192		1191		1190		1189		1188		1187		1186		1185		1184		1183		1182		1181		1180		1179		1178		1177		1176		1175		1174		1173		1172		1171		1170		1169		1168		1167		1166		1165		1164		1163		1162		1161		1160		1159		1158		1157		1156		1155		1154		1153		1152		1151		1150		11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(Continued)

...and the nonmetallic mineral products industries. The automotive sector is the largest of the separate industry categories at 13.1% of the manufacturing sector. The machinery sector is the second largest at 11.1%, followed by the chemical and allied products sector at 10.1%. The electrical, electronic and related equipment and apparatus sector is the third largest at 9.1%. The transportation equipment sector is the fourth largest at 8.1%. The primary metal industries sector is the fifth largest at 7.1%. The nonmetallic mineral products sector is the sixth largest at 6.1%. The chemical and allied products sector is the seventh largest at 5.1%. The electrical, electronic and related equipment and apparatus sector is the eighth largest at 4.1%. The transportation equipment sector is the ninth largest at 3.1%. The primary metal industries sector is the tenth largest at 2.1%. The nonmetallic mineral products sector is the eleventh largest at 1.1%. The chemical and allied products sector is the twelfth largest at 0.1%.

...and the nonmetallic mineral products industries. The automotive sector is the largest of the separate industry categories at 13.1% of the manufacturing sector. The machinery sector is the second largest at 11.1%, followed by the chemical and allied products sector at 10.1%. The electrical, electronic and related equipment and apparatus sector is the third largest at 9.1%. The transportation equipment sector is the fourth largest at 8.1%. The primary metal industries sector is the fifth largest at 7.1%. The nonmetallic mineral products sector is the sixth largest at 6.1%. The chemical and allied products sector is the seventh largest at 5.1%. The electrical, electronic and related equipment and apparatus sector is the eighth largest at 4.1%. The transportation equipment sector is the ninth largest at 3.1%. The primary metal industries sector is the tenth largest at 2.1%. The nonmetallic mineral products sector is the eleventh largest at 1.1%. The chemical and allied products sector is the twelfth largest at 0.1%.

[illegible]

See footnotes at end of table.

Table 4. -- VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	Seasonally adjusted					Without seasonal adjustment ¹									
		Yearly					Quarterly				Monthly					
		Yearly					Quarterly				Last 4 months					
		July 1960 ²	June 1960	May 1960	I 1960	IV 1959	III 1959	II 1959	I 1959	Aug. 1960 ³	July 1960	June 1960	May 1960	Aug. 1959	July 1959	June 1959
INDUSTRY GROUPS AND INDUSTRIES																
16	Electrical machinery, total...	21,983	22,679	21,861	21,620	20,598	19,462	18,089	18,048	22,025	22,226	22,296	22,067	19,198	19,429	18,937
361-2	Electrical transmission and distribution equipment and industrial apparatus...	1,480	4,013	3,982	3,868	3,770	3,637	3,534	3,306	1,952	4,017	4,018	4,004	4,096	3,522	3,343
363	Household appliances...	1,891	1,998	1,998	2,092	2,116	1,558	1,721	1,558	1,979	2,011	2,018	2,026	1,927	2,026	1,934
364	Radio and TV...	1,081	1,095	1,101	1,053	1,039	970	989	1,012	1,134	1,141	1,131	1,133	1,073	1,073	1,033
365	Communication equipment...	8,771	8,792	7,916	7,741	7,095	6,388	5,830	5,436	8,737	8,720	8,025	8,019	6,448	6,427	6,136
367	Electronic components...	3,136	3,136	3,136	3,240	3,099	2,897	2,839	2,712	3,099	3,037	3,023	3,014	2,961	2,918	2,850
37	Transportation equipment, total...	15,380	15,380	15,380	15,380	15,380	15,380	15,380	15,380	15,380	15,380	15,380	15,380	15,380	15,380	15,380
371	Motor vehicles and parts...	7,176	7,176	7,176	7,176	7,176	7,176	7,176	7,176	7,176	7,176	7,176	7,176	7,176	7,176	7,176
372-9	Aircraft, missiles, and spacecraft...	1,186	1,186	1,186	1,186	1,186	1,186	1,186	1,186	1,186	1,186	1,186	1,186	1,186	1,186	1,186
3731	Shipbuilding and military tank vehicles...	2,392	2,392	2,392	2,392	2,392	2,392	2,392	2,392	2,392	2,392	2,392	2,392	2,392	2,392	2,392
38	Instrument and related products, total...	8,073	8,073	8,073	8,073	8,073	8,073	8,073	8,073	8,073	8,073	8,073	8,073	8,073	8,073	8,073
381-9	Scientific and engineering, photographic goods...	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545	2,545
386	All other durable goods industries...	12,328	12,328	12,328	12,328	12,328	12,328	12,328	12,328	12,328	12,328	12,328	12,328	12,328	12,328	12,328
39	Food and kindred products, total...	21,115	21,115	21,115	21,115	21,115	21,115	21,115	21,115	21,115	21,115	21,115	21,115	21,115	21,115	21,115
20	Food and kindred products, total...	21,115	21,115	21,115	21,115	21,115	21,115	21,115	21,115	21,115	21,115	21,115	21,115	21,115	21,115	21,115
201	Meat products...	1,984	1,984	1,984	1,984	1,984	1,984	1,984	1,984	1,984	1,984	1,984	1,984	1,984	1,984	1,984
208	Dairy products...	3,708	3,708	3,708	3,708	3,708	3,708	3,708	3,708	3,708	3,708	3,708	3,708	3,708	3,708	3,708
209-9	All other food products...	11,423	11,423	11,423	11,423	11,423	11,423	11,423	11,423	11,423	11,423	11,423	11,423	11,423	11,423	11,423
21	Tobacco products...	3,618	3,618	3,618	3,618	3,618	3,618	3,618	3,618	3,618	3,618	3,618	3,618	3,618	3,618	3,618
22	Textile mill products...	5,875	5,875	5,875	5,875	5,875	5,875	5,875	5,875	5,875	5,875	5,875	5,875	5,875	5,875	5,875
25	Paper and allied products, total...	7,072	7,072	7,072	7,072	7,072	7,072	7,072	7,072	7,072	7,072	7,072	7,072	7,072	7,072	7,072
261-1	Printing and publishing...	2,681	2,681	2,681	2,681	2,681	2,681	2,681	2,681	2,681	2,681	2,681	2,681	2,681	2,681	2,681
263	Chemical and allied products...	2,790	2,790	2,790	2,790	2,790	2,790	2,790	2,790	2,790	2,790	2,790	2,790	2,790	2,790	2,790
28	Chemical and allied products, total...	18,090	18,090	18,090	18,090	18,090	18,090	18,090	18,090	18,090	18,090	18,090	18,090	18,090	18,090	18,090
281-9	Industrial chemicals, except drugs, soap, and toiletries...	5,873	5,873	5,873	5,873	5,873	5,873	5,873	5,873	5,873	5,873	5,873	5,873	5,873	5,873	5,873
283-9	Drugs, soap, and toiletries...	5,677	5,677	5,677	5,677	5,677	5,677	5,677	5,677	5,677	5,677	5,677	5,677	5,677	5,677	5,677
29	Petroleum and coal products, total...	8,721	8,721	8,721	8,721	8,721	8,721	8,721	8,721	8,721	8,721	8,721	8,721	8,721	8,721	8,721
30	Rubber and plastic products, total...	4,495	4,495	4,495	4,495	4,495	4,495	4,495	4,495	4,495	4,495	4,495	4,495	4,495	4,495	4,495
31	All other nonmetallic products, total...	12,739	12,739	12,739	12,739	12,739	12,739	12,739	12,739	12,739	12,739	12,739	12,739	12,739	12,739	12,739

¹ Preliminary, 1960 level.

² Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. In the supplementary series are regressions of the separate industry categories as follows:

Household durable goods - Household furniture, kitchen appliances, and other household goods.

Capital goods industries - The capital goods industries series is comparable to the previous "Products" Capital Goods and the "Business Equipment" and "Business Equipment" series.

Non-durable goods - Machinery, except electrical (excluding farm delivery and equipment and machine shop), electrical machinery (excluding household appliances, etc.), and other equipment, and the

before-hand products - based on statistical reports on before-hand products, and on the data are comparable to those published annually in the "Statistical Abstract of the United States" for the specified industries.

Table 6. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS--MONTH-TO-MONTH AND LONG-TERM PERCENT CHANGES

(Based on seasonally adjusted data)

Item and industry group	Month-to-month			Average monthly rates of change				Average,	
	July-Aug. 1980	June-July 1980	May-June 1980	3 months			12 months	Average rise	Average decline
				May-Aug. 1980	June-May 1980	Nov. 1979-Feb. 1980	Aug. 1979-Aug. 1980		
Shipments:									
All manufacturing industries.....	+1.2	+2.7	0.0	+1.1	+2.5	+1.4	+0.3	+1.6	+1.2
Durable goods industries.....	+0.7	+6.7	+0.6	+1.6	+4.3	+2.4	+0.2	+1.9	+1.7
Nondurable goods industries.....	+1.8	+0.9	+0.6	+1.1	+0.8	+1.5	+0.7	+1.1	+0.9
Inventories:									
All manufacturing industries.....	+0.2	+0.2	-1.0	+0.0	+1.1	+1.4	+0.1	+1.1	+1.1
New orders:									
All manufacturing industries.....	+0.4	+0.0	+0.2	+2.0	+1.5	+1.7	+0.2	+1.4	+1.2
Durable goods industries.....	+1.5	+11.1	+1.3	+2.7	+6.0	+2.2	+0.2	+2.8	+2.0
Nondurable goods industries.....	+2.2	+1.1	+0.7	+1.3	+0.4	+1.2	+0.7	+1.7	+0.7
Unfilled orders:									
Durable goods industries.....	0.0	+0.6	-1.0	+0.1	+3.0	+1.0	+0.4	+1.2	+0.9

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	August 1980	July 1980	June 1980	May 1980	August 1980	July 1980	June 1980	May 1980
All manufacturing industries.....	1.66	1.68	1.72	1.72	3.72	4.71	3.82	4.83
Durable goods industries.....	2.22	2.23	2.42	2.31	4.45	4.48	4.60	4.61
Stone, clay, and glass products.....	1.52	1.50	1.62	1.60	0.74	0.74	0.79	0.83
Primary metals.....	1.92	2.03	2.13	2.04	2.47	2.50	2.57	2.53
Fabricated metals.....	2.19	2.21	2.41	2.35	2.50	2.55	2.67	2.71
Machinery, except electrical.....	2.80	2.82	2.82	2.89	4.35	4.63	4.64	4.61
Electrical machinery.....	2.12	2.19	2.21	2.18	1.76	1.82	1.92	1.86
Transportation equipment.....	2.44	2.24	2.52	2.42	13.47	12.94	14.02	13.71
Instruments and related products.....	2.38	2.50	2.51	2.50	1.76	1.85	1.88	1.92
Nondurable goods industries.....	1.11	1.14	1.15	1.15	0.71	0.68	0.71	0.74
Food and kindred products.....	0.97	1.00	0.98	1.00	(X)	(X)	(X)	(X)
Tobacco products.....	3.00	3.00	3.49	3.10	(X)	(X)	(X)	(X)
Textile mill products.....	1.47	1.48	1.54	1.54	(X)	(X)	(X)	(X)
Paper and allied products.....	1.30	1.27	1.32	1.32	(X)	(X)	(X)	(X)
Chemicals and allied products.....	1.39	1.47	1.55	1.53	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.60	0.64	0.59	0.57	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.16	1.32	1.41	1.51	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, “at book values.” Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.

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Manufacturers' Shipments, Inventories, and Orders

U.S. Department of Commerce
BUREAU OF THE CENSUS

SEPTEMBER 1980

M3-1(80)-9

For Wire Transmission 3:00 P.M. Friday, October 31, 1980

(All figures in text below are in seasonally adjusted dollars.)

New orders for manufactured goods in September increased \$7.1 billion or 4.8 percent to \$153.6 billion the Bureau of the Census, Department of Commerce reported today. This increase followed an August decline of 0.4 percent, revised from the 0.3 percent increase reported earlier for August, which was based on less complete reporting.

New orders for durable goods were up \$6.5 billion or 9.0 percent, with all industry categories except electrical machinery reporting increases. Within the transportation industry category,¹ the aircraft and parts industry increased \$2.2 billion or 69 percent to \$5.4 billion, following a 44 percent decline in August. Although new orders for this industry are volatile, the volume of orders for September is comparable to the average monthly volume of orders during 1979 of \$5.5 billion.

New orders for nonelectrical machinery increased \$1.4 billion or 10.7 percent to \$14.3 billion. This is the largest percentage increase in that category since the 12.5 percent recorded in January 1976. Within the primary metal industries, new orders for steel increased \$0.6 billion or 10.5 percent to \$6.2 billion. After dropping to a low in May of \$3.4 billion, new orders for steel have been steadily increasing, with the September volume topping the previous high for the year of \$5.9 billion recorded in February. New orders for nonferrous metals increased \$0.4 billion or 8.4 percent to \$5.3 billion, following an August decline of 8.2 percent.

Within the capital goods industries, new orders for defense capital goods² increased \$2.0 billion or 52 percent to \$5.9 billion, reflecting large orders received by the aircraft and shipbuilding industries. New orders for nondefense capital goods increased \$1.2 billion or 6.0 percent to \$20.5 billion. The pattern of change for the specific nondefense categories was mixed.

Shipments by manufacturers in September increased \$5.0 billion or 3.4 percent to \$151.7 billion. Although shipments have been increasing since June, they are still below the February high of \$152.9 billion. Shipments by the durable goods industries¹ were up more significantly, increasing \$4.2 billion or 5.8 percent. Nearly all categories reported increases, the largest of which were aircraft and parts, up \$1.0 billion or 25 percent; nonelectrical machinery, up \$0.8 billion

or 5.6 percent; steel mills, up \$0.6 billion or 12.8 percent; and fabricated metal products, up \$0.6 billion or 7.3 percent.

Shipments by nondurable goods manufacturers increased \$0.8 billion or 1.1 percent to \$75.4 billion with increases by chemical, paper, and apparel producers accounting for most of the increase.

The backlog of manufacturers' orders in September increased \$2.0 billion or 0.7 percent to \$284.4 billion. Unfilled orders in the defense capital goods industries increased \$2.2 billion or 4.0 percent. Without the defense capital goods industries, manufacturers' backlog declined 0.1 percent.

The book value of manufacturers' inventories in September increased \$0.9 billion or 0.4 percent to \$244.4 billion. Inventories of durable goods manufacturers declined for the second consecutive month, down \$0.3 billion or 0.2 percent. Offsetting the durable goods industry decline, inventories of nondurable goods manufacturers increased \$1.2 billion to 1.4 percent to \$83.6 billion. A billion dollars of that increase came from the foods industry.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for October is scheduled for release on November 25, 1980, and the full report is scheduled for release on December 4, 1980.

Year-to-year variations in both the timing and duration of the model changeover period are sufficiently great that the normal seasonal adjustment procedures do not adequately identify the seasonality during the period and may introduce substantial erratic movement. To compensate for this, the estimated seasonally adjusted monthly average for the quarter is used for the seasonally adjusted data in each of the 3 months. These seasonally adjusted data are recomputed each month as additional information is received. The seasonally adjusted estimate of shipments for motor vehicle assembly operations for the third quarter was revised upward \$0.6 billion or approximately \$0.2 billion per month. The seasonally unadjusted automotive data are not subject to any special estimating procedure.

² For all of the defense capital goods series, modified seasonal adjustment factors were used to account for the change in the Federal Government's fiscal year from a July 1 through June 30 basis to an October 1 through September 30 basis in 1976. These factors were introduced in the July 1977 data and will continue to be used until sufficient data are available to assess the impact of the change in the fiscal year on the seasonal pattern of the industry.

¹ Motor vehicle assembly plants close down for retrofiting generally during July, August, and September, for the forthcoming model year.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

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five footnotes at end of table.

Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

$\rho_{\text{Deuterium}}$ ρ_{Reversed}

Shipments and new orders are the totals for the period and are adjusted for training-day and calendar-month variations; unfilled orders and inventories are as at the end of the period and are not adjusted for training-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household appliances, radio and TV, ophthalmic goods, watches, and clocks; miscellaneous goods.

[illegible]

See footnotes at end of table.

Table 4.--VALUE OF MANUFACTURES' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES AND SUPPLEMENTARY SERIES--Continued
(Millions of dollars)

SIC	Industry	Seasonally adjusted					Quarterly					Without seasonal adjustment ¹										
		Monthly					Last 4 months					Monthly										
		Sept. 1967 ²	Aug. 1967	July 1967	June 1967	I 1967	IV 1967	III 1967	II 1967	I 1967	Sept. 1967	Aug. 1967	July 1967	June 1967	Sept. 1967	Aug. 1967	July 1967	June 1967				
INDUSTRY GROUPS AND INDUSTRIES																						
36	Electrical machinery, total...	22,086	22,012	22,079	21,861	21,720	20,598	19,462	18,689	18,448	21,852	22,052	22,018	22,248	19,200	19,411	19,179	19,002	19,200	19,411	19,179	19,002
361,2	Electrical transmission and distribution equipment...																					
361	Household appliances...	3,961	3,977	4,013	3,982	3,968	3,770	3,637	3,514	3,366	3,978	3,984	4,017	4,018	3,588	3,556	3,562	3,562	3,588	3,556	3,562	3,562
362	Radio and TV...	1,913	1,902	1,932	1,908	1,895	1,770	1,658	1,551	1,435	1,907	1,912	1,941	1,941	1,494	1,457	1,460	1,457	1,494	1,457	1,460	1,457
363	Communication equipment...	4,826	4,799	4,852	4,792	4,761	4,590	4,370	4,114	3,911	4,803	4,811	4,850	4,825	4,357	4,338	4,348	4,347	4,357	4,338	4,348	4,347
364	Electronic components...	3,386	3,372	3,374	3,366	3,360	3,191	2,987	2,834	2,712	3,369	3,375	3,399	3,423	2,986	2,961	2,969	2,968	2,986	2,961	2,969	2,968
37	Transportation equipment, total...	33,895	33,915	33,914	32,688	31,467	29,401	28,408	27,337	25,721	33,895	33,895	33,895	33,895	29,401	29,401	29,401	29,401	29,401	29,401	29,401	29,401
371	Motor vehicles and parts...	7,320	7,284	7,238	7,248	7,248	7,057	6,802	6,572	6,350	7,320	7,320	7,320	7,320	6,350	6,350	6,350	6,350	6,350	6,350	6,350	6,350
372,6	Trucks, tractors, and other motor vehicles...																					
3731	Shipbuilding and related tank vehicles...	22,001	21,755	21,214	20,849	19,949	17,947	17,589	16,633	14,155	22,001	21,840	21,112	20,483	15,638	14,415	14,746	14,746	15,638	14,415	14,746	14,746
3795	Trucks, tractors, and other motor vehicles...	2,424	2,426	2,392	2,386	2,313	2,165	2,036	1,714	1,714	2,424	2,401	2,401	2,401	2,036	2,036	2,036	2,036	2,036	2,036	2,036	2,036
38	Instrument and related products, total...	8,299	8,406	8,425	8,394	8,237	7,765	7,471	7,117	7,036	8,299	8,412	8,412	8,412	7,471	7,471	7,471	7,471	7,471	7,471	7,471	7,471
381-4	Scientific and engineering instruments...	5,897	5,946	5,944	5,894	5,791	5,291	4,971	4,780	4,500	5,897	5,910	5,932	5,923	4,971	4,919	4,900	4,900	4,919	4,900	4,919	4,900
386	Photographic goods...	2,880	2,937	2,949	2,908	2,815	2,586	2,406	2,231	2,086	2,880	2,892	2,897	2,896	2,141	2,146	2,146	2,146	2,146	2,146	2,146	2,146
39	All other durable goods industries...	2,280	2,344	2,307	2,308	2,181	1,936	1,739	1,594	1,467	2,280	2,276	2,276	2,276	1,467	1,463	1,470	1,470	1,463	1,470	1,463	1,470
Non-durable goods industries																						
20	Food and kindred products, total...	25,877	26,467	26,810	26,272	26,431	25,347	24,260	23,457	23,118	26,467	26,763	26,993	26,979	23,457	23,793	23,422	23,422	23,793	23,422	23,422	23,422
201	Food products...	1,950	1,936	1,981	1,981	1,981	1,927	1,757	1,719	1,682	1,950	1,955	1,981	1,974	1,682	1,608	1,608	1,608	1,608	1,608	1,608	1,608
208	Beverages...	3,659	3,659	3,659	3,659	3,659	3,659	3,659	3,659	3,659	3,659	3,659	3,659	3,659	3,659	3,659	3,659	3,659	3,659	3,659	3,659	3,659
209-3	All other food products...	2,178	2,186	2,170	2,162	2,131	2,049	1,975	1,924	1,886	2,178	2,186	2,178	2,178	1,886	1,803	1,803	1,803	1,803	1,803	1,803	1,803
21	Tobacco products...	3,708	3,675	3,618	3,624	3,596	3,503	3,362	3,268	3,199	3,708	3,714	3,708	3,708	3,199	3,195	3,212	3,212	3,195	3,212	3,195	3,212
22	Textile mill products...	5,576	5,550	5,540	5,585	5,604	5,844	5,695	5,653	5,714	5,576	5,582	5,585	5,585	5,131	5,098	5,103	5,103	5,098	5,103	5,098	5,103
23	Paper and allied products, total...	7,595	7,550	7,442	7,598	7,586	7,745	7,422	7,414	7,406	7,595	7,626	7,626	7,626	7,406	7,317	7,302	7,317	7,302	7,317	7,302	7,317
231-3	Pulp, paper, etc...	2,791	2,724	2,670	2,636	2,631	2,219	2,143	2,048	1,978	2,791	2,791	2,791	2,791	2,143	2,108	2,111	2,108	2,111	2,108	2,111	2,108
232	Printing and publishing...	1,406	1,417	1,426	1,410	1,400	1,398	1,398	1,398	1,398	1,406	1,417	1,426	1,410	1,398	1,398	1,398	1,398	1,398	1,398	1,398	1,398
234	All other paper enterprises...	2,890	2,909	2,796	2,941	2,891	2,598	2,467	2,467	2,467	2,890	2,909	2,796	2,941	2,467	2,467	2,467	2,467	2,467	2,467	2,467	2,467
24	Chemical and allied products, total...	18,488	18,517	18,964	18,970	18,970	18,970	18,970	18,970	18,970	18,488	18,517	18,964	18,970	18,970	18,488	18,517	18,964	18,970	18,488	18,517	18,964
251,6	Chemical and allied products...																					
251	Chemical products, except pigments...	5,895	5,942	6,269	6,451	6,155	6,155	6,155	6,155	6,155	5,895	5,942	6,269	6,451	6,155	6,155	6,155	6,155	6,155	6,155	6,155	6,155
251-4	Drugs, soap, and toiletries...	5,717	5,693	5,680	5,709	5,681	5,333	5,141	5,042	4,941	5,717	5,693	5,680	5,709	5,141	5,107	5,107	5,107	5,107	5,107	5,107	5,107
26	Petroleum and coal products...	8,931	8,911	8,945	8,781	8,761	8,561	8,361	8,262	8,163	8,931	8,931	8,931	8,931	8,163	8,064	8,064	8,064	8,064	8,064	8,064	8,064
27	Nonmetallic mineral products, except cement...	4,356	4,320	4,294	4,317	4,306	4,277	4,260	4,260	4,260	4,356	4,356	4,356	4,356	4,260	4,252	4,252	4,252	4,252	4,252	4,252	4,252
28	All other non-durable goods industries...	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769
Supplementary																						
31	All other non-durable goods industries...	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769
¹ Revised.																						

¹ Preliminary.
² Data for the period are adjusted for trading-day and calendar-month variations. Unfilled cells and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.
The supplementary series are extensions of the separate industry categories as follows:
Household durable goods industries - household furniture, articles and pottery, cutlery, hand tools, and hardware.
Capital goods industries - the capital goods industries series is comparable to the previous Industries' Capital Goods and the Defense Products, Cold War, and Aerospace Industries series.
Nondefense products - machinery, except electrical (excluding farm machinery and equipment and machine tools), electrical machinery (excluding household appliances, radio and television sets, and other electronic equipment), communication equipment, communication equipment, aircraft and aircraft parts, and aerospace.
Defense products - Based on separate reports on defense work filed by large defense contractors in the following industries: aircraft and aircraft parts, and aerospace.
Data are comparable to those published annually in the U.S. Shipments of Defense Contractors in the following industries: aircraft and aircraft parts, and aerospace.

Table 6. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS--MONTH-TO-MONTH AND LONG-TERM PERCENT CHANGES

(Based on seasonally adjusted data)

Item and industry group	Month-to-month			Average monthly rates of change				Average, 1975-1979	
	August-September 1980 ^P	July-August 1980 ^T	June-July 1980	3 months			12 months Sept. 1979-Sept. 1980	Average rise	Average decline
				June-September 1980	May-August 1980	February-MAY 1980			
Shipments:									
All manufacturing industries.....	+3.4	+0.7	+2.9	+2.3	+1.2	-2.5	+0.1	+1.6	-1.2
Durable goods industries.....	+5.8	-0.7	+5.1	+3.3	+1.2	4.3	+0.2	+1.9	-1.9
Nondurable goods industries.....	+1.1	+2.0	+0.9	+1.3	+1.2	-0.8	+0.7	+1.6	-0.7
Inventories:									
All manufacturing industries.....	+0.4	0.2	+0.2	+0.1	+0.0	-1.2	+0.8	+0.7	-0.3
New orders:									
All manufacturing industries.....	+4.8	-0.4	+0.1	+3.5	+1.8	-3.5	+0.3	+1.9	-1.2
Durable goods industries.....	+9.0	+3.5	+11.7	+5.5	+2.1	0.0	+0.0	+2.8	-2.0
Nondurable goods industries.....	+0.8	+2.8	+1.0	+1.6	+1.5	0.9	+0.7	+1.3	-0.7
Unfilled orders:									
Durable goods industries.....	+0.7	-0.2	+0.6	+0.4	-0.2	0.0	+0.4	+1.2	-0.9

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled order--shipments ratio ¹ (months' backlog)			
	September 1980	August 1980	July 1980	June 1980	September 1980	August 1980	July 1980	June 1980
All manufacturing industries.....	1.61	1.66	1.68	1.72	3.57	3.75	3.71	3.82
Durable goods industries.....	2.11	2.24	2.23	2.32	4.26	4.51	4.48	4.60
Stone, clay, and glass products.....	1.38	1.52	1.50	1.62	0.66	0.75	0.74	0.79
Primary metals.....	1.78	1.94	2.03	2.13	2.45	2.50	2.50	2.57
Fabricated metals.....	2.00	2.16	2.21	2.31	3.15	3.46	3.55	3.67
Machinery, except electrical.....	2.74	2.89	2.82	2.82	4.25	4.51	4.43	4.44
Electrical machinery.....	2.13	2.14	2.19	2.21	3.72	3.79	3.82	3.92
Transportation equipment.....	2.22	2.34	2.24	2.52	12.55	13.87	12.94	14.02
Instruments and related products.....	2.35	2.38	2.30	2.31	1.76	1.76	1.85	1.88
Nondurable goods industries.....	1.11	1.11	1.14	1.15	0.70	0.72	0.68	0.71
Food and kindred products.....	1.00	0.94	1.00	0.98	(X)	(X)	(X)	(X)
Tobacco products.....	3.27	3.00	3.00	3.49	(X)	(X)	(X)	(X)
Textile mill products.....	1.48	1.49	1.48	1.54	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.24	1.30	1.27	1.32	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.36	1.41	1.47	1.55	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.63	0.62	0.64	0.59	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.19	1.20	1.32	1.41	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. ^TRevised. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

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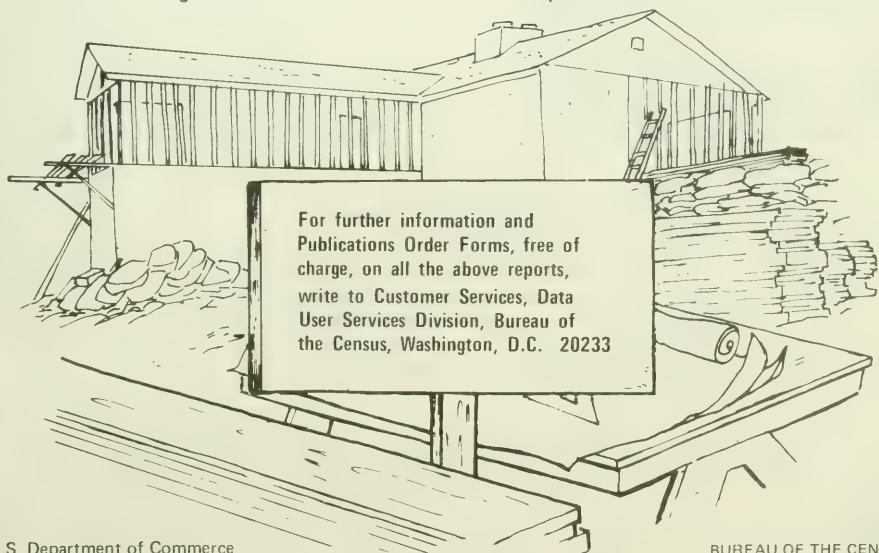
C27 - Price Index of New One-Family
Houses Sold

C30 - Value of New Construction Put
in Place

C40 - Housing Authorized by Building
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Manufacturers' Shipments, Inventories, and Orders

OCTOBER 1980

M3-1(80)-10

U.S. Department of Commerce
BUREAU OF THE CENSUS

DEPOSITORY

For Wire Transmission 3:00 P. M. Thursday, December 4, 1980

(All figures in text below are in seasonally adjusted dollars.)

New orders for manufactured goods in October increased \$2.7 billion or 1.7 percent from September, to \$158.4 billion the Department of Commerce, Bureau of the Census, reported today. The durable goods industries showed the same percentage increase for the month, going up \$1.4 billion to \$80.7 billion. Excluding the defense category, new orders for durable goods were up \$3.8 billion or 5.3 percent. Durable goods orders in September and October were heavily influenced by the month-to-month movements in the defense¹ category. In September, defense orders were up \$1.9 billion or 43 percent to \$6.5 billion, while in October they dropped to \$4.0 billion, a decline of \$2.5 billion or 38 percent.

New orders for primary metals in October increased \$1.3 billion or 10.2 percent to \$13.8 billion. Within the primary metals category, steel orders, which were valued at \$7.2 billion, accounted for a \$0.9 billion increase. Since May, when steel orders dropped to \$3.4 billion, orders have been steadily increasing at an average rate of 13 percent per month. Fabricated metal producers reported a \$1.1 billion or 12.1 percent increase in October new orders. New orders for electrical machinery in October were also up \$1.1 billion, an 11.5 percent increase over the September volume of \$10.0 billion.

The only major declines in new orders came from the transportation equipment industries where orders were down in total \$2.9 billion or 16.3 percent to \$15.0 billion. Without the declines in defense orders for aircraft and ships, new orders for transportation equipment had a 1.7 percent increase. New orders for the nondefense capital goods industries as a group decreased \$0.6 billion or 2.8 percent to \$20.7 billion, with declines in aircraft and shipbuilding more than offsetting increases in the machinery categories.

Shipments of manufactured products in October were valued at \$156.9 billion, up \$4.2 billion or 2.7 percent from September. Most of the durable goods industries reported increases, the largest of which were in motor vehicles,² up \$1.1 billion or 12.8 percent to \$9.9 billion; and steel, up \$0.6 billion or 10.7 percent to \$5.8 billion. Shipments in the household durable goods category increased \$0.2 billion or 3.9 percent to \$5.2 billion. After declining during the first half of 1980 to a low of \$4.6 billion in June, the volume of shipments of household durables has increased 3 of the last 4 months.

Shipments by nondurable goods manufacturers increased \$1.3 billion or 1.8 percent to \$77.5 billion. Chemical shipments which were up \$0.7 billion or 5.1 percent, and petroleum shipments which were up \$0.5 billion or 3.8 percent accounted for most of the increase. The value of shipments of food products was down \$0.2 billion or 1.1 percent to \$21.9 billion.

The value of manufacturers' unfilled orders increased to \$287.4 billion in October, up \$1.4 billion or 0.5 percent. An increase of \$2.0 billion in primary metal orders backlogs, \$1.4 billion of which was for steel and \$0.6 billion for non-ferrous metals, more than offset the decline in transportation equipment backlog of \$1.3 billion or 1.2 percent.

The book value of manufacturers' inventories was \$243.3 billion in October. This level has been virtually unchanged for the last 5 months, as May inventories were valued at \$243.4 billion. The inventory to shipments ratio of 1.55 for October has been declining since June when the ratio was 1.72.

For durable goods manufacturers, motor vehicles and parts inventories declined \$0.3 billion or 3.5 percent to \$7.1 billion, steel inventories decreased \$0.2 billion or 1.7 percent to \$10.9 billion, and nonelectrical machinery inventories were down \$0.3 billion, 0.8 percent to \$38.8 billion. The largest decline in nondurable goods inventories was in petroleum products, down \$0.5 billion or 5.5 percent.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for November is scheduled for release on December 19, 1980 and the full report is scheduled for release on December 31, 1980.

Government's fiscal year from a July 1 through June 30 basis to an October 1 through September 30 basis in 1976. These factors were introduced in the July 1977 data and will continue to be used until sufficient data are available to assess the impact of the change in the fiscal year on the seasonal pattern of the industry.

²Motor vehicle assembly plants close down for retooling generally during July, August, and September, for the forthcoming model year. Due to year to year variations in the timing of this model changeover period, the estimated seasonally adjusted monthly average for the quarter is used for the seasonally adjusted data in each of the 3 months. Comparisons between the October value and the three month average shown for September do not accurately reflect the relative month to month changes. The seasonal factor used for October is based on data through September, 1980. The seasonally unadjusted data as published are not subject to any special estimating procedure.

¹ For all of the defense capital goods series, modified seasonal adjustment factors were used to account for the change in the Federal

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURES: SHIPMENTS FOR INDUSTRIES GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	Seasonally adjusted										Not seasonally adjusted ¹									
		Monthly					Quarterly					Yearly									
		1957		1958		1959	1960		1961	1962		1963		1964		1965		1966		1967	
		1000	1000	1000	1000		1000	1000		1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	TOTALS																				
	All manufacturing industries.....	156,926	172,779	166,663	167,085	425,676	425,676	425,676	162,419	178,460	240,467	130,600	130,600	130,600	130,600	130,600	130,600	130,600	130,600	130,600	130,600
	Manufacturing industries.....	140,666	147,425	145,359	146,410	380,131	380,131	380,131	144,609	162,792	235,607	122,449	122,449	122,449	122,449	122,449	122,449	122,449	122,449	122,449	122,449
	Exporting transportation.....	81,535	80,263	79,623	79,623	225,400	225,400	225,400	86,610	85,115	107,111	57,115	57,115	57,115	57,115	57,115	57,115	57,115	57,115	57,115	57,115
	Manufacturing industries with unfilled orders.....	79,991	76,500	72,707	72,707	171,116	171,116	171,116	82,800	85,414	109,220	51,200	51,200	51,200	51,200	51,200	51,200	51,200	51,200	51,200	51,200
	Durable goods industries.....	65,009	66,243	64,216	64,216	171,116	171,116	171,116	87,806	87,806	109,220	51,200	51,200	51,200	51,200	51,200	51,200	51,200	51,200	51,200	51,200
	Durable goods with unfilled orders.....	77,535	74,119	71,280	71,280	171,116	171,116	171,116	87,806	87,806	109,220	51,200	51,200	51,200	51,200	51,200	51,200	51,200	51,200	51,200	51,200
	Non-durable goods industries.....	15,926	15,779	15,663	15,663	425,676	425,676	425,676	74,613	90,654	131,247	79,400	79,400	79,400	79,400	79,400	79,400	79,400	79,400	79,400	79,400
	Non-durable goods with unfilled orders.....	11,580	11,580	11,580	11,580	425,676	425,676	425,676	10,900	10,900	13,377	10,900	10,900	10,900	10,900	10,900	10,900	10,900	10,900	10,900	10,900
	MARKET CATEGORIES																				
	House goods and apparel.....	11,890	11,890	11,890	11,890	425,676	425,676	425,676	10,900	10,900	13,377	10,900	10,900	10,900	10,900	10,900	10,900	10,900	10,900	10,900	10,900
	Consumer staples.....	28,199	28,199	28,199	28,199	425,676	425,676	425,676	29,693	29,693	36,119	29,693	29,693	29,693	29,693	29,693	29,693	29,693	29,693	29,693	29,693
	Equipment and defense products, except automotive.....	22,699	21,106	21,207	21,207	425,676	425,676	425,676	22,873	22,873	28,061	22,873	22,873	22,873	22,873	22,873	22,873	22,873	22,873	22,873	22,873
	Automotive equipment.....	11,767	10,655	10,757	10,757	425,676	425,676	425,676	11,006	11,006	13,377	11,006	11,006	11,006	11,006	11,006	11,006	11,006	11,006	11,006	11,006
	Capital goods, except machinery, and intermediate products.....	11,278	11,463	11,716	11,814	425,676	425,676	425,676	11,006	11,006	13,377	11,006	11,006	11,006	11,006	11,006	11,006	11,006	11,006	11,006	11,006
	Other materials, supplies, and intermediate products.....	69,220	69,750	69,180	69,180	425,676	425,676	425,676	69,900	69,900	87,806	69,900	69,900	69,900	69,900	69,900	69,900	69,900	69,900	69,900	69,900
	SUPPLEMENTARY SERIES ²																				
	Household durable goods industries.....	5,171	5,476	5,269	5,269	17,111	17,111	17,111	5,736	5,736	7,201	5,736	5,736	5,736	5,736	5,736	5,736	5,736	5,736	5,736	5,736
	Capital goods industries.....	25,426	25,678	25,509	25,509	425,676	425,676	425,676	25,473	25,473	32,072	25,473	25,473	25,473	25,473	25,473	25,473	25,473	25,473	25,473	25,473
	Non-durable goods.....	21,681	21,878	21,690	21,690	425,676	425,676	425,676	21,814	21,814	27,418	21,814	21,814	21,814	21,814	21,814	21,814	21,814	21,814	21,814	21,814
	Defense.....	3,763	3,798	3,736	3,736	425,676	425,676	425,676	3,763	3,763	4,716	3,763	3,763	3,763	3,763	3,763	3,763	3,763	3,763	3,763	3,763
	INDUSTRY GROUPS AND INDUSTRIES																				
	Durable goods industries:																				
	Stone, clay, and glass products.....	4,288	4,288	4,288	4,288	17,111	17,111	17,111	4,651	4,651	5,736	4,651	4,651	4,651	4,651	4,651	4,651	4,651	4,651	4,651	4,651
	Primary metal industries.....	11,880	11,322	10,606	10,258	42,186	42,186	42,186	11,861	11,861	14,720	11,861	11,861	11,861	11,861	11,861	11,861	11,861	11,861	11,861	11,861
	Blast furnaces, steel mills.....	5,786	5,227	4,662	4,362	17,221	17,221	17,221	5,610	5,610	7,201	5,610	5,610	5,610	5,610	5,610	5,610	5,610	5,610	5,610	5,610
	Nonferrous and other primary metals.....	5,018	5,106	5,022	5,007	17,111	17,111	17,111	5,106	5,106	6,181	5,106	5,106	5,106	5,106	5,106	5,106	5,106	5,106	5,106	5,106
	Fabricated metal products.....	9,921	9,921	9,921	9,921	42,186	42,186	42,186	9,921	9,921	12,000	9,921	9,921	9,921	9,921	9,921	9,921	9,921	9,921	9,921	9,921
	Chemicals, drugs, and allied products.....	862	783	786	786	2,187	2,187	2,187	818	818	1,000	818	818	818	818	818	818	818	818	818	818
	Machinery, except electrical.....	14,639	14,594	13,500	13,465	42,186	42,186	42,186	14,770	14,770	18,000	14,770	14,770	14,770	14,770	14,770	14,770	14,770	14,770	14,770	14,770
	Engines and turbines.....	1,171	1,027	1,004	1,004	3,206	3,206	3,206	1,171	1,171	1,400	1,171	1,171	1,171	1,171	1,171	1,171	1,171	1,171	1,171	1,171
	Pawn machinery and equipment.....	1,203	1,104	1,084	1,084	3,206	3,206	3,206	1,279	1,279	1,500	1,279	1,279	1,279	1,279	1,279	1,279	1,279	1,279	1,279	1,279
	Construction, mining, and other non-durable equipment.....	2,643	2,519	2,508	2,507	7,070	7,070	7,070	2,581	2,581	3,206	2,581	2,581	2,581	2,581	2,581	2,581	2,581	2,581	2,581	2,581
	Metalsworking equipment.....	2,643	2,643	2,643	2,643	7,070	7,070	7,070	2,643	2,643	3,206	2,643	2,643	2,643	2,643	2,643	2,643	2,643	2,643	2,643	2,643
	General industrial machinery.....	1,274	1,248	1,114	1,115	3,206	3,206	3,206	1,306	1,306	1,600	1,306	1,306	1,306	1,306	1,306	1,306	1,306	1,306	1,306	1,306

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)											
		Seasonally adjusted						Not seasonally adjusted ¹					
		Monthly						Monthly					
		Oct. 1960	Sept. 1960	Aug. 1960	July 1960	III 1960	II 1960	I 1960	Oct. 1960	Sept. 1960	Aug. 1960	July 1960	Year to date
		Last 4 months a year ago						Last 4 months a year ago					
		Oct. 1959	Sept. 1959	Aug. 1959	July 1959	Oct. 1959	Sept. 1959	Aug. 1959	Oct. 1959	Sept. 1959	Aug. 1959	July 1959	1979
36	INDUSTRY GROUPS AND INDUSTRIES--												
361,2	Continued												
363	Durable goods and industries--												
365	Continued												
367	Continued												
369	Continued												
371	Electrical machinery.....	10,778	10,392	10,483	10,067	30,742	29,819	30,858	11,261	10,955	10,062	8,971	102,095
372	Electrical transmission and												
373	industrial apparatus.....	1,757	1,748	1,697	1,697	5,142	5,028	5,358	1,786	1,784	1,640	1,491	17,419
374	Household appliances.....	1,261	1,154	1,025	1,025	3,394	3,050	3,594	1,293	1,240	1,152	1,023	11,304
375	Radio and TV.....	779	756	731	725	2,212	1,886	2,022	940	887	754	584	6,784
376	Communication equipment.....	3,257	3,199	3,110	3,098	9,418	9,256	8,902	3,229	3,266	3,005	2,749	10,750
377	Electronic components.....	1,674	1,603	1,493	1,479	4,276	4,033	4,063	1,752	1,704	1,579	1,433	16,183
378	Transportation equipment.....	15,332	15,132	14,704	14,632	40,533	40,533	40,533	17,512	16,074	11,759	12,453	147,483
379	Motor vehicles and parts.....	9,466	8,746	8,641	8,656	26,243	22,722	28,039	11,114	9,371	6,446	6,842	87,322
381	Aircraft, missiles, and												
382	parts.....	4,693	4,812	3,863	4,262	12,937	12,550	11,714	4,598	4,900	3,635	3,923	41,558
383	Shipbuilding and military												
384	tank vehicles.....	687	815	856	788	2,459	2,459	2,655	747	830	800	758	6,984
385	Instrument and related												
386	products.....	3,627	3,552	3,536	3,375	10,463	9,944	10,623	3,779	3,807	3,541	3,091	34,561
387	Scientific and engineering.....	2,047	2,051	2,021	1,922	5,994	5,734	6,047	2,090	2,162	1,975	1,734	19,877
388	Photographic goods.....	1,415	1,330	1,263	1,273	3,493	3,693	4,021	1,497	1,449	1,386	1,203	12,914
24	Textiles.....												
25	All other durable goods												
26	Industries.....	7,968	7,652	7,039	7,245	21,936	20,753	23,661	8,506	8,371	7,572	6,614	76,565
27	Non-durable goods industries:												
28	Food and kindred products.....	21,940	22,178	22,110	20,898	65,186	59,809	60,656	22,788	22,790	21,987	19,843	207,556
29	Meat products.....	5,523	5,267	5,272	4,860	15,499	13,566	14,653	5,666	5,303	5,277	4,695	49,202
30	Beverages.....	2,636	2,611	2,678	2,701	8,190	7,739	7,512	2,773	2,692	2,976	2,809	26,304
31	Tobacco products.....	1,760	1,753	1,745	1,745	5,700	5,350	5,350	1,760	1,753	1,745	1,745	23,006
32	Alcohol and distilled spirits.....	9,163	9,163	9,163	8,665	25,350	25,350	25,350	9,163	9,163	9,163	9,163	86,650
33	All other food products.....	1,346	1,145	1,192	1,205	3,344	3,344	3,344	1,306	1,137	1,226	1,197	11,313
34	Tobacco products.....	1,346	1,145	1,192	1,205	3,344	3,344	3,344	1,306	1,137	1,226	1,197	11,313
35	Textile mill products.....	4,004	3,959	3,938	4,027	11,924	12,124	12,690	4,276	4,211	3,944	3,387	40,791
36	Paper and allied products.....	6,133	6,152	5,794	5,845	17,791	17,239	17,787	6,299	6,241	5,973	5,521	59,424
37	Pulp, paper, etc.....	2,669	2,696	2,718	2,764	8,358	8,217	8,282	2,944	2,855	2,790	2,608	27,931
38	Apparel.....	1,553	1,496	1,484	1,485	4,867	4,867	4,867	1,553	1,496	1,484	1,485	12,118
39	Apparel containers.....	1,309	1,309	1,309	1,309	4,005	4,005	4,005	1,309	1,309	1,309	1,309	12,118
40	Chemicals and allied products.....	14,425	13,731	13,099	12,869	39,699	38,234	41,164	14,236	14,267	12,758	11,823	134,989
281.6	Industrial chemicals, ex-												
281.7	cept pigments.....	4,931	4,575	4,364	4,261	13,200	13,154	14,653	4,719	4,529	4,259	3,984	46,440
281.8	Drugs, soap, and toiletries.....	4,153	4,073	3,859	3,870	11,602	10,968	10,680	4,378	4,468	3,813	3,534	37,974
281.9	Paints and allied products.....	14,909	14,365	14,314	13,960	42,639	43,724	43,163	14,753	14,640	14,396	14,104	144,676
291	Rubber, leather, and plastics.....	3,071	3,724	3,753	3,611	11,088	10,236	11,541	4,070	3,826	3,775	3,281	37,140
23	All other nondurable goods												
27	Industries.....	11,007	10,939	10,386	10,719	32,944	31,268	31,814	12,131	11,858	11,128	10,186	106,456
31	Industries.....												

Preliminary.

Revised.

¹ Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations: unfilled orders and inventories are as of the end of the period and are not adjusted for trade variations. The supplementary series are the totals for the period and are adjusted for trading-day and calendar-month variations: unfilled orders and inventories are as of the end of the period and are not adjusted for trade variations.

The supplementary series are the totals for the period and are adjusted for trading-day and calendar-month variations: unfilled orders and inventories are as of the end of the period and are not adjusted for trade variations.

Household durable goods industries--Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense goods industries--Aircraft, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and nondefense products of shipbuilding and repairing and equipment, communication equipment, and aircraft and aircraft parts, and ordnance.

Defense goods industries--Shipbuilding and repairing and equipment, communication equipment, and aircraft and aircraft parts, and ordnance.

The data are comparable to those published annually in the W-175. Shipments in Federal Government agencies (formerly "Shipments of Defense-Oriented Industries"), for the specified industries.

The data are comparable to those published annually in the W-175. Shipments in Federal Government agencies (formerly "Shipments of Defense-Oriented Industries"), for the specified industries.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Millions of dollars)

SIC	Industry	Seasonally adjusted					Quarterly					Year-to-date				
		Monthly					Last 4 months					Last 4 months a year ago				
		Sept. 1980	Aug. 1980	July 1980	111 1980	11 1980	1 1980	Sept. 1980	Aug. 1980	July 1980	June 1980	Sept. 1979	Aug. 1979	July 1979	June 1979	1979
	TOTALS															
	All manufacturing industries.....	158,363	155,675	167,180	649,949	207,815	462,298	166,393	181,296	184,119	136,338	150,964	156,988	132,360	1,000,808	1,448,732
	Manufacturing industries excluding transportation.....	144,395	137,775	131,065	530,112	176,313	423,008	147,025	142,394	131,856	112,009	131,311	146,092	117,001	1,344,028	1,661,080
	Manufacturing industries with unfilled orders.....	82,972	83,179	76,758	236,608	108,336	257,372	86,304	84,686	75,253	55,401	80,250	84,631	68,253	597,435	781,289
	Durable goods industries.....	80,738	79,373	72,759	225,830	99,698	256,032	86,597	85,420	84,831	67,193	81,216	78,908	67,526	708,209	780,271
	Durable goods with unfilled orders.....	67,456	67,300	60,388	190,060	176,596	201,068	73,583	68,328	68,762	56,437	66,444	64,882	55,787	637,711	638,440
	Nondurable goods industries.....	77,625	76,302	74,951	224,139	216,417	222,222	79,746	88,826	77,287	69,147	72,869	71,906	60,285	741,147	865,355
	Nondurable goods with unfilled orders.....	15,716	15,879	15,370	51,999	48,540	50,633	16,941	16,336	15,883	13,667	15,348	15,973	13,426	150,689	162,529
	Industries without unfilled orders.....	61,909	60,423	59,381	172,141	170,877	171,415	62,805	69,492	65,186	55,180	64,603	66,311	59,098	588,448	722,725
	MARKET CATEGORIES															
	Home goods and apparel.....	11,509	11,051	10,724	35,671	31,606	34,372	16,698	22,334	11,607	16,407	12,852	12,503	11,789	111,313	136,688
	Consumer staples.....	28,389	28,569	28,168	83,364	77,912	77,896	29,680	29,830	28,132	25,786	26,817	26,945	26,244	208,336	240,562
	Equipment and defense products, except automotive.....	22,747	25,029	21,722	68,499	66,295	69,510	26,197	19,873	19,873	23,675	23,109	23,422	18,906	197,258	238,197
	Automotive equipment.....	11,976	10,854	10,205	31,493	25,605	33,202	11,276	11,399	8,663	8,569	12,094	9,253	10,003	133,276	129,421
	Intermediate products, and other materials, supplies, and intermediate products.....	13,439	12,281	11,976	38,430	33,196	38,419	13,935	12,925	12,290	11,445	13,286	13,288	13,327	111,583	125,416
	Supplementary series ³	70,294	67,871	66,837	197,736	186,311	208,717	71,136	67,602	66,166	58,836	62,343	61,494	59,638	467,414	625,384
	HOUSEHOLD DURABLE GOODS INDUSTRIES															
	Household durable goods industries.....	5,073	4,830	4,789	16,367	13,033	15,414	5,697	5,362	5,038	4,224	5,080	4,959	4,144	48,935	47,184
	Capital goods industries.....	24,655	27,731	23,886	77,541	75,478	79,556	28,279	28,544	22,458	24,904	26,947	26,502	22,568	208,854	246,275
	Nondefense.....	20,677	21,273	19,371	62,532	61,708	67,929	22,539	22,081	18,537	19,369	22,506	20,280	19,428	213,776	216,703
	Defense.....	3,978	6,458	4,515	15,339	13,773	11,627	5,740	6,464	3,921	4,410	4,437	4,296	2,338	2,768	31,572
	INDUSTRY GROUPS AND INDUSTRIES															
	Durable goods industries:															
	Stone, clay, and glass.....	4,395	4,198	3,877	12,131	11,184	12,799	4,652	4,489	4,242	3,946	4,337	4,285	4,124	41,997	40,711
	Primary metals.....	13,899	12,554	11,412	36,771	27,003	37,760	13,279	10,823	9,267	11,889	10,925	9,549	9,249	114,487	121,077
	Chemical and allied products.....	7,157	6,255	5,644	16,620	13,361	16,831	6,632	5,451	5,247	4,693	5,249	4,240	4,229	52,723	59,139
	Nonferrous and other primary metal products.....	5,592	5,292	4,854	15,436	13,267	17,218	5,518	5,155	4,702	4,502	4,961	4,924	4,132	31,761	49,422
	Fabricated metal products.....	9,980	8,903	8,522	26,465	25,271	29,053	9,310	8,765	8,030	9,940	9,528	8,952	9,300	93,000	93,000
	Machinery, except electrical.....	14,862	14,817	12,931	44,177	43,496	45,175	14,662	12,237	12,934	14,845	13,824	12,541	12,352	138,701	136,009
	Engines and turbines.....	1,261	1,132	1,149	3,598	3,281	3,480	1,379	1,215	1,041	869	1,256	1,232	1,073	11,205	11,205
	Transportation equipment, except aircraft.....	2,826	2,786	2,450	7,745	6,766	8,953	2,822	2,680	2,337	2,617	3,029	2,769	2,627	20,565	27,339
	Metalworking machinery.....	836	954	503	2,254	2,411	3,319	821	877	614	709	1,025	1,199	911	8,492	9,668
	General industrial machinery.....	1,259	1,090	1,037	3,237	2,867	3,714	1,253	1,096	1,060	1,011	1,193	1,201	1,000	11,165	11,418

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)									
		Seasonally adjusted					Not seasonally adjusted ¹				
		Monthly		Quarterly			Monthly				
		Oct. 1980	Sept. 1980	Aug. 1980	July 1980	III 1980	II 1980	I 1980	Oct. 1980	Sept. 1980	Year to date
	INDUSTRY GROUPS AND INDUSTRIES--										
	Continued										
	Durable goods industries--										
	Continued										
36	Electrical machinery.....	11,121	9,977	10,793	9,677	30,444	30,700	33,175	11,765	10,842	10,574
361,2	Electrical transmission and distribution equipment.....										
	Industrial apparatus.....										
363	Household appliances.....	1,819	1,609	1,470	1,590	4,389	5,369	5,485	1,886	1,642	1,619
365	Radio and TV.....	1,190	1,242	1,173	1,304	3,439	3,073	3,540	1,712	1,400	1,234
366	Communication equipment.....	734	736	809	684	2,234	1,907	2,375	895	858	863
367	Electronic components.....	3,571	2,984	3,701	3,198	10,078	10,028	10,024	3,502	3,176	3,662
369	Electronic equipment.....	1,958	1,400	1,400	1,400	4,158	4,158	4,158	1,762	1,762	1,762
372,6	Transportation equipment.....	14,578	17,900	14,475	17,362	48,437	44,502	48,798	19,173	18,902	11,303
	Aircraft, missiles, and parts.....	3,294	5,685	3,794	5,682	15,161	19,374	15,388	8,897	6,269	3,347
3721	Shipbuilding and military tank vehicles.....	834	2,389	1,244	824	~457	2,427	2,595	1,115	2,269	992
3795	Instruments and related products.....	3,576	3,573	3,111	3,317	10,491	8,779	11,094	3,722	4,173	3,445
24	All other durable goods industries.....	7,997	7,451	7,911	7,407	21,469	20,325	23,877	8,394	8,402	7,903
25											
39											

Preliminary.

Revised.

¹Shipments and new orders for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are groupings of the separate industry categories as follows:

361,2 Electrical machinery--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radio and TV, electronic goods, watches, and clocks (miscellaneous personal goods).

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and electronic.

Defense products--Based on separate reports on defense work by producers of defense equipment, including aircraft, electronic equipment, aircraft parts, and shipbuilding.

The data are comparable to those published annually in the 361-377. Shipments to Federal Government agencies (formerly Supplemental Defense-Related Industries), for the specified industries.

Table 3. VALUE OF SALES (IN RUSSIAN RUBLE) UNTILLED ORDERS FOR INDUSTRIAL GOODS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

316	Industry	Seasonally adjusted										Not seasonally adjusted ¹⁾									
		Millions of rubles										Millions of rubles									
		Quarterly										Quarterly									
		1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
TOTALS																					
317	All manufacturing industries.....	253,152	286,249	282,455	285,000	286,007	278,718	275,805	282,800	287,000	281,120	282,455	286,249	282,455	285,000	286,007	278,718	275,805	282,800	287,000	281,120
318	Manufacturing industries.....	171,182	172,648	171,611	171,413	181,261	176,886	176,149	175,085	175,000	173,413	171,182	172,648	171,611	171,413	181,261	176,886	176,149	175,085	175,000	173,413
319	Exciting, transportation.....	7,985	278,040	272,062	276,383	282,864	267,878	261,362	272,187	276,000	269,411	7,985	278,040	272,062	276,383	282,864	267,878	261,362	272,187	276,000	269,411
320	Durable goods industries.....	19,467	16,706	15,404	16,694	17,023	11,811	11,201	12,630	15,118	11,186	19,467	16,706	15,404	16,694	17,023	11,811	11,201	12,630	15,118	11,186
MARKET CATEGORIES																					
321	Home goods, apparel and equipment and accessories.....	6,058	5,266	6,170	6,227	6,777	5,286	5,066	6,217	7,104	5,287	6,058	5,266	6,170	6,227	6,777	5,286	5,066	6,217	7,104	5,287
322	except automobiles.....	101,600	100,600	100,600	100,600	100,600	100,600	100,600	100,600	100,600	100,600	101,600	100,600	100,600	100,600	100,600	100,600	100,600	100,600	100,600	100,600
323	construction materials, supplies, and intermediate products.....	20,064	20,064	20,064	20,064	20,064	20,064	20,064	20,064	20,064	20,064	20,064	20,064	20,064	20,064	20,064	20,064	20,064	20,064	20,064	20,064
324	other materials, supplies, and intermediate products.....	101,117	100,242	98,601	96,962	102,846	99,471	98,026	93,662	100,000	98,601	101,117	100,242	98,601	96,962	102,846	99,471	98,026	93,662	100,000	98,601
SUPPLEMENTARY SERIES																					
325	Household durable goods, index (1967=100).....	1,116	1,234	1,268	1,287	1,300	1,273	1,251	1,230	1,210	1,200	1,116	1,234	1,268	1,287	1,300	1,273	1,251	1,230	1,210	1,200
326	capital goods industries.....	101,771	100,242	98,601	96,962	102,846	99,471	98,026	93,662	100,000	98,601	101,771	100,242	98,601	96,962	102,846	99,471	98,026	93,662	100,000	98,601
327	defence.....	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
INDUSTRY GROUPS AND INDUSTRIES																					
Durable goods industries																					
328	Stone, clay, and glasses.....	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
329	Primary metals.....	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310
330	Nonferrous and other primary metal products.....	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125	18,125
331	Nonferrous and other metal products.....	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
332	Manufactured metal products.....	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310	27,310
333	Machinery, except electrical.....	36,219	36,219	36,219	36,219	36,219	36,219	36,219	36,219	36,219	36,219	36,219	36,219	36,219	36,219	36,219	36,219	36,219	36,219	36,219	36,219
334	Engines and turbines.....	16,400	16,400	16,400	16,400	16,400	16,400	16,400	16,400	16,400	16,400	16,400	16,400	16,400	16,400	16,400	16,400	16,400	16,400	16,400	16,400
335	Construction, mining, and material-handling equipment.....	7,120	7,120	7,120	7,120	7,120	7,120	7,120	7,120	7,120	7,120	7,120	7,120	7,120	7,120	7,120	7,120	7,120	7,120	7,120	7,120
336	General industrial machinery.....	6,172	6,172	6,172	6,172	6,172	6,172	6,172	6,172	6,172	6,172	6,172	6,172	6,172	6,172	6,172	6,172	6,172	6,172	6,172	6,172

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURES¹ INFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(Millions of dollars)

SIC	Industry group	Seasonally adjusted					Quarterly					Monthly					Not seasonally adjusted ¹				
		Monthly					Quarterly					Monthly					Not seasonally adjusted ¹				
		Oct. 1980 ²	Sept. 1980 ²	Aug. 1980 ²	July 1980	II 1980	I 1980	IV 1979	III 1979	II 1979		Oct. 1980 ²	Sept. 1980 ²	Aug. 1980 ²	July 1980	Oct. 1979	Sept. 1979	Aug. 1979	July 1979		
INDUSTRY GROUP AND INDUSTRIES--																					
Continued																					
Durable goods industries--																					
Continued																					
36	Electrical machinery.....	38,878	38,534	38,947	38,437	38,830	37,944	35,631	34,858	33,845		39,260	38,755	39,068	38,597	35,373	35,114	34,589	33,968		
361,2	Electrical transmission and distribution equipment and industrial apparatus.....	7,907	7,825	7,964	7,992	8,000	7,657	7,531	7,418	7,254		7,913	7,813	7,965	7,986	7,490	7,434	7,423	7,228		
363	Household electric, electronic, and communication equipment.....	429	430	431	432	433	395	364	407	470		395	475	415	363	358	405	423	481		
365	Radio and TV.....	394	438	458	380	416	395	342	599	533		447	492	520	409	433	671	618	478		
366	Communication equipment.....	18,974	18,659	18,864	18,252	18,365	17,592	16,123	15,803	15,489		19,380	18,660	18,681	18,188	16,214	15,816	15,383	15,310		
367	Electronic components.....	10,266	10,225	10,381	10,589	10,792	11,014	10,308	9,844	9,159		10,265	10,388	10,568	10,183	9,887	9,798	9,738	9,487		
37	Transportation equipment.....	112,170	113,476	110,913	111,042	109,611	105,642	102,966	98,840	94,748		113,795	112,231	109,403	109,858	100,344	97,905	95,209	94,820		
372,6	Aircraft, missiles, and space vehicles.....	89,650	91,050	90,178	90,247	88,927	81,804	77,929	73,098	69,254		91,407	90,049	88,699	88,937	75,102	72,371	69,947	69,243		
3731	Shipbuilding and military tank vehicles.....	13,350	13,203	11,629	11,241	11,205	11,237	11,297	11,146	10,895		13,352	12,983	11,545	11,382	11,086	10,960	10,929	10,948		
3795	Instruments and related products.....	6,181	6,232	6,211	6,237	6,295	6,459	5,985	5,870	5,628		6,197	6,255	6,292	6,289	5,916	5,868	5,826	5,730		
38	All other durable goods industries.....	2,847	2,817	3,019	3,047	3,084	3,314	3,317	3,297	3,361		2,858	2,971	3,274	3,364	3,411	3,485	3,544	3,607		

¹Preliminary.

²Revised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are of the end of the period and are not adjusted for trading-day or calendar-month variations.
²The supplementary series are regroupings of the separate industry categories as follows:
 Household durable goods industries--Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household appliances, radio and TV, ophthalmic goods, watches, and clocks; and miscellaneous personal goods.
 Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.
 Consumer goods industries--Comparable to the previous producers' consumer goods categories.
 Shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.
 Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.
 The data are comparable to those published annually in the M-175, "Shipments to Federal Government Agencies" (formerly "Shipments of Defense-Oriented Industries"), for the specified industries.
 Beginning in 1976, the fiscal year for the Federal Government probably affected the awarding of contracts and other financial arrangements. Although the impact of this change is not known, the use of previously established seasonal factors would have substantially distorted the current data since these seasonal factors reflect historical government purchasing patterns. Therefore, beginning in July 1977, new composite seasonal factors were calculated for the defense industries. These factors were applied to the unfilled orders data for each of the separately tabulated defense industries. This adjustment also modified the new orders data. Similar adjustments could not be made for nondefense government orders since such data are not compiled separately. This method of calculating the seasonal factors will be used until a sufficient amount of data are available to assess the impact of the change in the fiscal year on the seasonal pattern of the defense industries.

Table 5. VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP

Industry	Seasonally adjusted (million dollars)												Not seasonally adjusted				
	Monthly				Quarterly				Monthly				Quarterly				
	Oct. 1980	Sept. 1980	Aug. 1980	July 1980	II, 1980	I, 1980	IV, 1979	III, 1979	II, 1979	Oct. 1980	Sept. 1980	Aug. 1980	July 1980	Oct. 1979	Sept. 1979	Aug. 1979	July 1979
TOTALS																	
All manufacturing industries.....	283,313	241,615	241,517	244,105	243,630	238,322	228,238	221,304	213,962	262,018	241,441	242,763	242,900	222,296	219,375	217,893	214,979
Durable goods industries.....	160,649	160,591	161,081	160,875	160,404	157,127	151,649	146,048	141,480	158,987	159,177	160,807	160,946	146,672	144,618	144,370	142,752
Non-durable goods industries.....	6,064	5,920	5,993	6,079	6,141	5,987	5,866	5,636	5,406	6,031	5,889	5,746	5,610	5,310	5,274	5,180	5,045
Primary metals.....	20,988	20,988	20,988	20,988	20,988	20,988	20,988	20,988	20,988	20,988	20,988	20,988	20,988	20,988	20,988	20,988	20,988
Chemical and allied products, n.e.c.....	38,799	39,107	39,255	39,334	38,940	37,609	36,624	35,527	34,353	38,393	38,995	38,533	38,181	37,495	36,823	36,182	35,532
Electrical machinery.....	22,097	22,097	22,097	22,097	22,097	22,097	22,097	22,097	22,097	22,097	22,097	22,097	22,097	22,097	22,097	22,097	22,097
Transportation equipment.....	34,380	33,450	33,505	32,551	32,088	31,447	29,418	28,638	27,631	34,644	33,440	33,853	33,628	29,673	28,639	28,168	27,421
Instruments and related goods industries.....	8,115	8,240	8,404	8,425	8,393	8,237	7,765	7,421	7,137	8,237	8,237	8,237	8,237	7,447	7,438	7,502	7,479
All other durable goods industries.....	12,176	12,279	12,304	12,027	12,046	11,936	11,796	11,766	11,391	11,965	12,112	12,276	12,051	11,660	11,614	11,663	11,579
Non-durable goods industries.....	82,664	82,924	82,436	83,302	83,226	81,395	78,564	75,293	72,462	83,011	82,264	81,938	82,344	75,624	74,757	73,523	72,322
Chemicals and allied products, n.e.c.....	18,334	18,489	18,517	18,364	19,330	18,677	16,982	16,402	15,402	18,141	18,208	18,133	18,767	16,409	16,238	16,094	15,920
Textile mill products, n.e.c.....	8,905	8,640	8,750	8,989	8,813	8,652	8,365	8,163	7,902	8,402	8,337	8,318	8,682	6,571	6,440	6,034	5,606
Rubber and plastic products, n.e.c.....	51,466	51,071	50,588	50,612	50,316	49,702	48,229	47,518	46,285	51,813	50,847	50,272	49,943	47,942	47,323	45,807	45,037
All other non-durable goods industries.....																	
MATERIALS AND SUPPLIES																	
All manufacturing industries.....	80,762	80,957	82,346	82,935	82,314	79,114	75,770	73,082	70,575	80,945	80,594	80,811	81,907	77,217	75,497	75,692	73,844
Durable goods industries.....	48,727	49,007	49,136	50,032	50,177	48,857	46,437	44,803	42,803	49,405	49,203	49,836	49,461	47,483	46,616	46,865	45,443
Stone, clay, and glass products.....	2,340	2,271	2,270	2,396	2,336	2,277	2,227	2,034	2,036	2,311	2,271	2,289	2,351	2,115	2,104	2,070	2,000
Primary metal industries.....	8,023	8,010	8,010	8,010	8,010	8,010	8,010	8,010	8,010	8,010	8,010	8,010	8,010	8,010	8,010	8,010	8,010
Chemical and allied products, n.e.c.....	10,884	10,968	11,108	11,193	11,108	10,963	10,732	9,907	10,844								

Table 6. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS--MONTH-TO-MONTH AND LONG-TERM PERCENT CHANGES

(Based on seasonally adjusted data)

Item and industry group	Month-to-month			Average monthly rates of change ¹				Average, 1975-1979	
	Sept.- Oct. 1980 ^B	August- September 1980 ^C	July- August 1980 ^C	3 months			12 months Oct. 1979- Oct. 1980	Average rise	Average decline
				July- October 1980	June- September 1980	March- June 1980			
Shipments:									
All manufacturing industries.....	+2.7	+4.2	+0.7	+2.5	+2.6	-1.9	+0.6	+1.6	-1.2
Durable goods industries.....	+3.7	+6.3	+0.7	+3.1	+3.5	-3.1	+0.4	+1.9	-1.9
Nondurable goods industries.....	+1.8	+2.2	+2.0	+2.0	+1.7	-0.7	+0.9	+1.6	-0.7
Inventories:									
All manufacturing industries.....	-0.1	+0.0	-0.2	-0.1	-0.0	+0.7	+0.7	+0.7	-0.3
New orders:									
All manufacturing industries.....	+1.7	+5.8	+0.1	+2.5	+4.0	-3.0	+0.6	+1.9	-1.2
Durable goods industries.....	+1.7	+9.9	-2.7	+2.8	+6.1	-5.0	+0.4	+2.8	-2.0
Nondurable goods industries.....	+1.7	+1.8	+2.8	+2.1	+1.9	-1.1	+0.9	+1.5	-0.7
Unfilled orders:									
Durable goods industries.....	+0.5	+1.0	+0.1	+0.5	+0.6	-0.5	+0.4	+1.2	-0.9

¹Method of calculation of these percentages for 3 month and 12 month time intervals has been revised to reflect compounded monthly growth rates.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	October 1980	September 1980	August 1980	July 1980	October 1980	September 1980	August 1980	July 1980
All manufacturing industries.....	1.55	1.59	1.66	1.68	3.52	3.56	3.76	3.71
Durable goods industries.....	2.02	2.10	2.24	2.23	4.19	4.26	4.52	4.48
Stone, clay, and glass products.....	1.41	1.38	1.52	1.50	0.68	0.66	0.75	0.74
Primary metals.....	1.69	1.78	1.94	2.03	2.50	2.45	2.50	2.50
Fabricated metals.....	1.89	2.00	2.16	2.21	3.00	3.14	3.46	3.55
Machinery, except electrical.....	2.65	2.68	2.89	2.82	4.22	4.19	4.51	4.43
Electrical machinery.....	2.05	2.13	2.14	2.19	3.61	3.71	3.79	3.82
Transportation equipment.....	2.11	2.21	2.34	2.24	12.67	12.66	13.95	12.94
Instruments and related products.....	2.29	2.33	2.38	2.50	1.70	1.75	1.76	1.85
Nondurable goods industries.....	1.07	1.09	1.11	1.14	0.70	0.69	0.72	0.68
Food and kindred products.....	0.98	0.96	0.94	1.00	(X)	(X)	(X)	(X)
Tobacco products.....	2.98	3.25	3.00	3.00	(X)	(X)	(X)	(X)
Textile mill products.....	1.52	1.48	1.49	1.48	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.20	1.22	1.30	1.27	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.27	1.35	1.41	1.47	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.56	0.62	0.62	0.64	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.15	1.20	1.20	1.32	(X)	(X)	(X)	(X)

(NA) Not available. ^BPreliminary. ^CRevised. (X) Not applicable.¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums, farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.

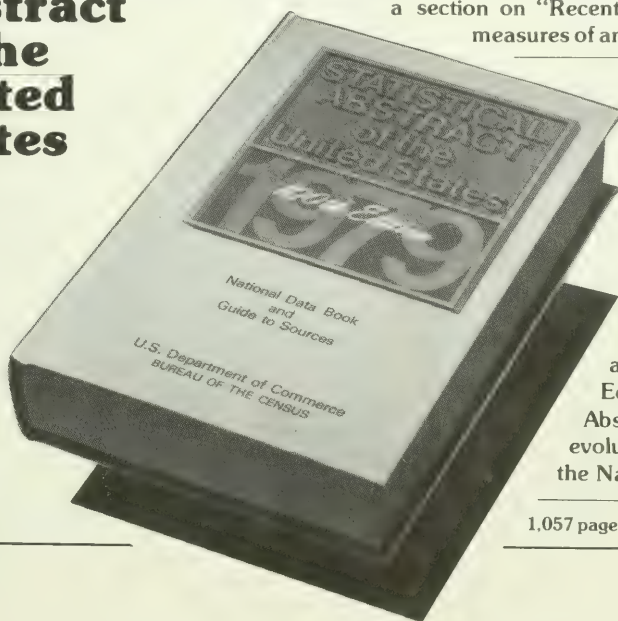
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U.S. Department of Commerce
BUREAU OF THE CENSUS

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in November increased \$1.6 billion or 1.0 percent from October to \$159.6 billion, the Department of Commerce, Bureau of the Census, reported today. New orders for durable goods in November increased \$1.1 billion or 1.3 percent to \$81.8 billion. Although this is the third consecutive monthly increase in orders for durable goods, the rates of increase have declined from 9.3 percent in September and 2.2 percent in October.

Within the durable goods industries, new orders for transportation equipment were \$1.2 billion or 8.2 percent to \$16.2 billion, following a 14.2 percent decline in October. Most of the November increase came from the aircraft and parts industry. Excluding the transportation equipment category, new orders for durable goods declined a 0.3 percent.

New orders for both electrical and nonelectrical machinery were up in November. Orders for electrical machinery, increased \$0.4 billion or 3.2% to \$11.4 billion; orders for nonelectrical machinery were valued at \$15.0 billion, a \$0.2 billion or 1.1 percent increase over October.

The only significant declines in durable goods orders occurred in the primary metals industries. Steel orders were down \$0.2 billion or 2.3 percent to \$7.0 billion, following five consecutive monthly increases of 10 percent or more. New orders for non-ferrous metals were down \$0.5 billion or 8.4 percent to \$5.0 billion.

Within the capital goods industries, new orders for nondefense capital goods increased \$1.4 billion or 6.6 percent to \$22.0 billion. New orders for defense capital goods went up \$0.6 billion or 15.1 percent to \$4.5 billion, with all categories except communication equipment increasing.

Shipments of manufactured products in November were valued at \$158.4 billion, up \$1.7 billion or 1.1 percent over October. Shipments of durable goods showed a similar percentage increase, going up \$0.8 billion or 1.0 percent to \$80.3 billion. All major durable goods industries except transportation

equipment had increases, the largest coming in the primary metals category where steel shipments went up \$0.5 billion or 8.7 percent to \$6.3 billion. The decline in transportation equipment shipments was caused by the motor vehicle industry where deliveries were down \$0.1 billion or 1.0 percent to \$9.8 billion.

Shipments of nondurable goods in November were up \$0.9 billion or 1.2 percent from October to \$78.1 billion. The largest increases were in the petroleum industry, up \$0.5 billion or 3.2 percent to \$15.5 billion, and the food industry, up \$0.2 billion or 1.1 percent to \$22.1 billion.

The backlog of manufacturers' orders at the end of November was valued at \$288.1 billion, a \$1.2 billion or 0.4 percent increase over October. The value of unfilled orders for steel was up \$0.7 billion or 4.1 percent to \$18.9 billion, for electrical machinery \$0.6 billion or 1.7 percent to \$39.5 billion, and for nonelectrical machinery \$0.2 billion or 0.4 percent to \$56.8 billion. The backlog of orders for nonelectrical machinery is substantially lower than the peak level of \$60.1 billion reported in January of this year.

Manufacturers reported a book value of inventories in November of \$244.2 billion, up \$1.3 billion or 0.5 percent from October. The foods products industry reported the largest increase, going up \$0.4 billion or 1.7 percent to \$21.9 billion, while the petroleum industry had the largest decline, down \$0.2 billion or 1.9 percent to \$8.3 billion. The inventory to shipments ratio for November was 1.54, down from last month's ratio of 1.55.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for December is scheduled for release on January 23, 1981 and the full report is scheduled for release on February 3, 1981.

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see footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(billions of dollars)

SIC	Industry	Seasonally adjusted					Not seasonally adjusted ¹										
		Monthly			Quarterly		Monthly					Annual					
		Nov. 1960	Oct. 1960 ²	Sept. 1960 ³	Aug. 1960	111 1960	11 1960	1 1960	Nov. 1960	Sept. 1960	Aug. 1960	Nov. 1960	Oct. 1960	Sept. 1960	Aug. 1960	1960	1961
1982A GROUPS AND INDUSTRIES--Continued																	
36	Electrical machinery.....	10,800	10,147	10,192	10,283	90,742	24,819	30,858	10,940	11,124	10,951	10,062	9,790	9,677	9,621	13,033	10,103
361-2	Electrical transmission and distribution apparatus.....																
363	Household appliances.....	1,810	1,773	1,748	1,697	5,142	5,028	5,138	1,784	1,803	1,794	1,640	1,700	1,744	1,734	18,381	18,381
365	Radio and TV.....	1,762	1,738	1,715	1,715	3,254	3,050	2,952	1,187	1,260	1,246	1,152	1,102	1,171	1,112	11,750	11,750
366	Electronic components.....	808	776	756	721	1,886	1,886	1,886	906	967	867	754	698	711	742	7,462	7,462
367	Communication equipment.....	3,148	3,200	3,149	3,149	5,418	5,250	5,418	1,716	1,716	1,716	1,605	1,593	1,604	1,584	15,849	15,849
368	Electronic instruments.....	1,908	1,908	1,908	1,908	3,254	3,254	3,254	1,187	1,260	1,246	1,152	1,102	1,171	1,112	11,750	11,750
369	Motor vehicles and parts.....	9,838	9,436	8,706	8,641	20,253	22,722	28,013	10,309	11,191	10,771	9,676	9,458	9,116	9,041	106,496	106,496
371	Aircraft, missiles, and parts.....																
372-9	Shipbuilding and military products.....	7,753	7,769	7,817	7,863	11,942	12,550	11,714	4,783	5,047	4,705	5,130	5,167	5,121	46,410	58,775	58,775
373-9	Transportation equipment.....	717	641	815	836	4,454	4,454	4,454	731	731	731	592	592	592	592	5,247	5,247
38	Leisure goods and related products.....	3,629	3,629	3,552	3,629	11,402	9,444	11,402	3,784	3,784	3,784	3,541	3,541	3,541	3,541	35,401	35,401
381-4	Scientific and engineering.....	2,103	2,061	2,061	2,061	3,446	3,446	3,446	1,187	1,187	1,187	1,187	1,187	1,187	1,187	11,800	11,800
386	Photographic goods.....	1,333	1,192	1,199	1,199	3,446	3,446	3,446	1,187	1,187	1,187	1,187	1,187	1,187	1,187	11,800	11,800
39	All other durable goods industries.....	8,054	7,965	7,692	7,692	11,402	10,723	11,402	3,784	3,784	3,784	3,541	3,541	3,541	3,541	35,401	35,401
20	Nonferrous goods industries																
28	Food and kindred products.....	22,055	21,425	21,476	21,476	21,476	21,476	21,476	22,363	22,072	22,790	21,482	20,518	19,723	19,504	239,810	239,810
281	Meat products.....	5,556	5,455	5,455	5,455	5,455	5,455	5,455	5,517	5,517	5,517	5,163	5,263	5,263	5,263	52,000	52,000
282	Dairy products.....	1,831	1,831	1,831	1,831	1,831	1,831	1,831	1,831	1,831	1,831	1,831	1,831	1,831	1,831	28,881	28,881
283	Fats and oils.....	1,831	1,723	1,695	1,695	3,060	2,997	2,997	1,869	1,724	1,724	1,690	1,690	1,690	1,690	20,462	20,462
284	All other foods.....	1,230	9,118	9,311	9,311	7,353	23,340	27,947	9,443	9,443	10,046	1,246	1,078	1,197	1,096	97,436	97,436
285	Tobacco products.....	1,203	1,211	1,145	1,145	3,344	3,344	3,344	1,239	1,280	1,137	1,137	1,137	1,137	1,137	11,121	11,121
286	Textile mill products.....	4,065	4,065	4,065	4,065	4,065	4,065	4,065	4,065	4,065	4,065	4,065	4,065	4,065	4,065	40,650	40,650
287	Leather and leather products.....	2,103	2,065	2,105	2,105	3,344	3,344	3,344	1,187	1,187	1,187	1,187	1,187	1,187	1,187	21,263	21,263
288	Polymers in primary forms.....	1,341	1,339	1,347	1,347	2,718	2,718	2,718	1,341	1,341	1,341	1,341	1,341	1,341	1,341	13,410	13,410
289	All other paper products.....	1,815	1,801	1,807	1,807	3,265	3,155	3,155	1,187	1,187	1,187	1,187	1,187	1,187	1,187	22,688	22,688
29	Chemical and allied products.....	14,211	14,161	13,731	13,731	19,454	19,454	19,454	13,454	13,454	13,454	12,708	12,313	11,759	11,759	142,228	142,228
291-9	Organic chemicals, except drugs, soaps, and toiletries.....	796	796	796	796	11,200	11,200	11,200	4,354	4,354	4,354	3,541	3,541	3,541	3,541	35,401	35,401
292	Inorganic chemicals.....	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	18,300	18,300
293	Drugs, soaps, and toiletries.....	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	18,300	18,300
294	Petroleum and coal products.....	15,938	15,938	15,938	15,938	15,938	15,938	15,938	15,938	15,938	15,938	15,938	15,938	15,938	15,938	159,378	159,378
295	Rubber and plastics products.....	3,882	3,796	3,724	3,724	11,088	11,088	11,088	3,796	3,796	3,796	3,775	3,775	3,775	3,775	38,882	38,882
296	All other nonferrous goods industries.....	11,173	11,067	10,499	10,499	10,499	10,499	10,499	11,173	11,173	11,173	11,136	10,755	11,061	10,660	138,274	138,274

¹ Preliminary.

² Revised.

Figures and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are recomputations of the separate industry categories as follows:

Household durable goods industries--household furniture, kitchen articles and pottery, cutlery, handtools, and hardware, household appliances, radio and TV, sports/recreation goods, autos, and clothes, and miscell-

aneous goods industries--comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense industries--except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--based on separate reports on defense work filed by large-defense contractors in the following industries: firearms, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the 48-75. Shipments by Federal Government agencies, primarily shipbuilding, are included in the 48-75.

Table 2. VALUE OF MANUFACTURES' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SHIPS--Continued
(millions of dollars)

SIC	Industry	Seasonally adjusted					Monthly					Not seasonally adjusted ¹					Total for all	
		Quarterly					Monthly					Monthly						
		Nov. 1960 ¹	Jan. 1961	Mar. 1961	May 1961	Jul. 1961	Nov. 1960 ¹	Jan. 1961	Mar. 1961	May 1961	Jul. 1961	Nov. 1960 ¹	Jan. 1961	Mar. 1961	May 1961	Jul. 1961		
	INDUSTRY GROUPS AND INDUSTRIES--																	
	Continued																	
	Durable goods industries--																	
36	Electrical machinery	11,468	9,977	10,789	9,644	9,700	11,082	11,728	10,466	9,334	9,487	10,067	10,402	9,861	11,156	105,966		
361,2	Electrical transmission and instrument equipment and household appliances	1,779	1,609	1,670	1,999	2,369	1,645	1,697	1,604	1,619	1,644	1,700	1,700	1,700	1,700	19,134		
363	Household appliances	1,179	1,152	1,173	1,359	1,373	1,131	1,124	1,103	1,104	1,101	1,115	1,113	1,094	1,101	11,791		
369	Radio and TV	1,510	1,246	1,427	1,286	1,968	1,309	1,382	1,298	1,295	1,299	1,284	1,284	1,284	1,284	7,258		
369	Communication equipment	3,851	3,242	3,800	3,211	3,109	3,576	3,910	3,423	3,403	3,403	3,403	3,403	3,403	3,403	17,663		
369	Electronic components	2,040	1,945	1,884	2,050	2,076	1,964	1,787	1,708	1,644	1,714	1,606	1,606	1,606	1,606	13,756		
37	Transportation equipment	16,739	15,007	14,172	14,301	14,312	15,804	15,068	14,842	14,313	14,341	14,301	14,311	14,326	14,326	201,493		
371,2	Aircraft, missiles, and spacecraft																	
371	Aircraft	4,484	4,206	3,212	3,784	3,374	3,908	3,908	3,908	3,908	3,908	3,908	3,908	3,908	3,908	39,417		
371	Missiles and rockets	865	716	1,359	1,284	1,284	864	864	864	864	864	864	864	864	864	7,405		
379	Other transportation equipment	1,407	1,081	9,511	9,231	9,653	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	11,111		
38	Other durable goods	7,054	7,001	7,111	7,001	7,001	7,001	7,001	7,001	7,001	7,001	7,001	7,001	7,001	7,001	70,001		
381	Automobiles and light trucks																	
382	Other motor vehicles																	
383	Other motor vehicles																	
384	Other motor vehicles																	
385	Other motor vehicles																	
386	Other motor vehicles																	
387	Other motor vehicles																	
388	Other motor vehicles																	
389	Other motor vehicles																	

Footnotes:

¹Shipments and new orders for the period and are adjusted for trading-day and calendar-month variations, unutilized orders, and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

²The supplementary series are groupings of the separate industry categories as follows:

Household durable goods industries: household furniture, kitchen articles, and pattern rollers; color, film, and TV, opticals, books, cameras, and other electronic equipment; capital goods industries: comparable to the previous producers' capital goods and the defense products (all series) categories.

Non-defense products: machinery, except electrical (excluding farm machinery, and equipment and machine shops); electrical machinery, including household appliances, radio and TV, and electronic components; and the non-defense portions of shipbuilding and repairing and railroad equipment; communication equipment, aircraft and air craft parts, and ordnance.

Defense products: based on separate reports on defense and, by large, defense contractors in the following industries: ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published monthly in the "Steel Shipments" report, annual "Inventory" report, and "Business Conditions Digest."

TABLE 1. VALUE OF MANUFACTURING, MINING, AND CONSTRUCTION OUTPUT, BY SECTOR, 1960-1980

row	industry	manufacturing industries										mining and construction									
		1960-1980					1960-1980					1960-1980					1960-1980				
		1960	1980	1960	1980	1960	1980	1960	1980	1960	1980	1960	1980	1960	1980	1960	1980				
INDUSTRY																					
MANUFACTURING																					
101	All manufacturing industries	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
102	Food, drink, and tobacco	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
103	Textiles, apparel, and leather	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
104	Chemical and allied products	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
105	Metals and metal products	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
106	Electrical, electronic, and other machinery	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
107	Transportation equipment	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
108	Other manufacturing industries	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
MINING																					
201	Coal	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
202	Oil and gas	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
203	Other minerals	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
CONSTRUCTION																					
301	Nonresidential buildings	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
302	Residential buildings	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
303	Highways, bridges, and other transportation	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
304	Water supply and sewerage	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
305	Electric, gas, and other utilities	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
306	Other construction	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000

See footnotes at end of table.

Table 1. Value added in manufacturing

Year	Industry	Value added in millions of dollars								Constant price					
		1929				1939				1949					
		1929	1939	1949	1959	1929	1939	1949	1959	1929	1939	1949	1959	1929	1959
1	All manufacturing industries	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2	Food and kindred products	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
3	Textile mill and apparel	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
4	Chemical and allied products	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
5	Nonmetallic mineral products	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
6	Metallic mineral products	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
7	Transportation equipment	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
8	Electrical, electronic, and optical equipment	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
9	Instrumental and related products	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
10	Other manufacturing industries	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
11	Food and kindred products	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
12	Textile mill and apparel	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
13	Chemical and allied products	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
14	Nonmetallic mineral products	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
15	Metallic mineral products	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
16	Transportation equipment	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
17	Electrical, electronic, and optical equipment	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
18	Instrumental and related products	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
19	Other manufacturing industries	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
20	Food and kindred products	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
21	Textile mill and apparel	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
22	Chemical and allied products	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
23	Nonmetallic mineral products	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
24	Metallic mineral products	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
25	Transportation equipment	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
26	Electrical, electronic, and optical equipment	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
27	Instrumental and related products	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
28	Other manufacturing industries	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

See footnotes at end of table.

Table 6. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS--MONTH-TO-MONTH AND LONG-TERM PERCENT CHANGES

(Based on seasonally adjusted data)

Item and industry group	Month-to-month			Average monthly rates of change				Average,	
	Oct.- Nov. 1980 ^P	Sept.- Oct. 1980 ^P	Aug.- Sept. 1980	3 months			12 months Nov. 1979- Nov. 1980	Average rise	Average decline
				Aug.- Nov. 1980	May- Aug. 1980	Feb.- May 1980			
Shipments:									
All manufacturing industries.....	+1.1	+2.6	+4.2	+2.6	+1.2	-1.5	+0.8	+1.6	1.2
Durable goods industries.....	+1.0	+3.8	+6.3	+3.7	+1.2	-4.3	+0.7	+1.7	-1.9
Nondurable goods industries.....	+1.2	+1.3	+2.2	+1.6	+1.2	-0.5	+0.9	+1.6	3.7
Inventories:									
All manufacturing industries.....	+0.5	-0.3	+0.0	+0.1	+3.0	-1.2	+3.1	+0.7	-0.3
New orders:									
All manufacturing industries.....	+1.0	+1.8	+5.5	+2.7	+1.9	-3.5	+0.7	+1.9	-1.2
Durable goods industries.....	+1.3	+2.2	+9.3	+4.2	+2.4	-6.0	+0.6	+1.8	-2.3
Nondurable goods industries.....	+0.7	+1.4	+1.8	+1.3	+1.5	-0.9	+0.8	+1.5	-1.7
Unfilled orders:									
Durable goods industries.....	+0.5	+0.4	+0.9	+0.6	-0.1	-9.0	+0.4	+1.2	-0.9

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	November 1980	October 1980	September 1980	August 1980	November 1980	October 1980	September 1980	August 1980
All manufacturing industries.....	1.54	1.55	1.60	1.66	3.49	3.51	3.56	3.76
Durable goods industries.....	2.00	2.01	2.10	2.24	4.15	4.18	4.26	4.52
Stone, clay, and glass products.....	1.39	1.40	1.38	1.53	0.67	0.68	0.66	0.75
Primary metals.....	1.63	1.70	1.78	1.94	2.46	2.52	2.45	2.50
Fabricated metals.....	1.89	1.88	2.00	2.16	2.98	3.02	3.15	3.46
Machinery, except electrical.....	2.61	2.62	2.68	2.90	4.18	4.17	4.19	4.51
Electrical machinery.....	2.05	2.06	2.13	2.14	3.66	3.62	3.71	3.79
Transportation equipment.....	2.11	2.09	2.21	2.34	12.48	12.48	12.61	13.95
Instruments and related products.....	2.32	2.31	2.33	2.38	1.70	1.71	1.76	1.76
Nondurable goods industries.....	1.07	1.07	1.09	1.11	0.69	0.71	0.69	0.72
Food and kindred products.....	0.99	0.99	0.96	0.94	(X)	(X)	(X)	(X)
Tobacco products.....	3.14	3.02	3.25	3.00	(X)	(X)	(X)	(X)
Textile mill products.....	1.49	1.48	1.48	1.49	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.24	1.23	1.22	1.30	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.30	1.30	1.35	1.41	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.54	0.57	0.62	0.62	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.13	1.18	1.20	1.20	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. ^RRevised. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



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Manufacturers' Shipments, Inventories, and Orders

DECEMBER 1980

U.S. Department of Commerce
BUREAU OF THE CENSUS

M3-1(80)-12

For Wire Transmission 2:30 P.M. Tuesday February 3, 1981

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in December increased by \$3.0 billion or 1.9 percent from November to \$161.8 billion. The Department of Commerce, Bureau of Census reported today. This brought orders for the year to \$1,811.3 billion, a 4.6 percent increase over the 1979 volume of \$1,732.2 billion.

New orders for durable goods were up in December by \$1.4 billion or 1.8 percent to \$82.5 billion. Total durable goods orders for 1980, valued at \$915.9 billion, were 1.1 percent lower than 1979. Excluding the motor vehicle industry, 1980 orders were 1.6 percent higher than 1979. New orders for nondurable goods for 1980 amounted to \$895.4 billion, an 11.1 percent increase over 1979.

The December increase in durable goods orders of \$1.4 billion was mostly attributable to defense orders. New orders for defense products were up \$1.3 billion or 28 percent to \$5.7 billion. New orders for nondefense capital goods in December declined \$0.2 billion or 1.0 percent to \$21.6 billion, with the communication equipment and aircraft industries showing the largest declines.

Within the major durable goods industry groups, new orders for transportation equipment were up \$1.3 billion or 7.9 percent to \$17.2 billion, reflecting the increase in defense orders. Offsetting the transportation equipment increase were declines in electrical machinery orders of \$1.1 billion or 9.4 percent and steel orders of \$0.3 billion or 4.3 percent.

Shipments of manufactured products in December increased by \$0.8 billion or 0.5 percent to \$158.5 billion. Shipments of nondurable goods were up \$1.1 billion or 1.4 percent to \$79.1 billion, with the food products and chemical industries accounting for the largest increases. Shipments of durable goods declined in December by \$0.3 billion or 0.4 percent to \$79.5 billion. Small increases in most of the major industry categories were more than offset by declines in electrical machinery shipments

of \$0.6 billion or 5.9 percent to \$10.2 billion, and transportation equipment deliveries of \$0.5 billion or 3.0 percent to \$15.6 billion. All major categories within transportation equipment declined. A \$0.2 billion drop in the motor vehicle industry brought their total shipments for 1980 to \$106.1 billion, 17.7 percent less than the 1979 volume of \$128.9 billion. The 1979 value was 2.6 percent lower than the 1978 shipments for that industry.

The value of manufacturers' unfilled orders in December increased \$3.3 billion or 1.1 percent to \$291.2 billion. Over half of that increase was reported by producers of defense capital goods, where backlogs increased \$2.0 billion or 3.4 percent to \$60.5 billion. The orders backlog in the nondefense capital goods category increased \$0.2 billion or 0.2 percent to \$133.3 billion, as declines in the commercial aircraft and railroad equipment industries were more than offset by increases in the other major categories.

The book value of manufacturers' inventories at the end of December was \$245.2 billion, a \$1.1 billion or 0.5 percent increase over November. The increase in the value of durable goods inventories came almost entirely from the aircraft and parts industry where inventories went up \$0.9 billion or 3.8 percent to \$23.7 billion. Inventories of nondurable goods manufacturers increased 0.2 percent over November. Raw material and work in process inventories increased in value in December by 1.1 percent and 1.3 percent respectively, while finished goods inventories decreased in value 1.2 percent.

The value of manufacturers' inventories at the end of 1980 were 7.4 percent above the December 1979 level. Inventories of durable goods manufacturers were \$161.9 billion, an increase of 6.7 percent over last year, while nondurable goods inventories increased 8.8 percent to \$83.3 billion.

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MAY-7 1981

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The estimates for December are generally subject to greater revisions than other months. These revisions are attributable to corrections to early estimates by companies and to the lower than normal response rates, as reporting is delayed by year end closing of records. For example, based on data from January 1972 through December 1979, the average monthly revision to durable goods new orders was 1.1 percent; for January through November the rate was 1.0 percent, while the average December change was 1.8 percent.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

See footnotes at end of table.

TABLE 7. VALUE OF MANUFACTURES' NEW ORDERS BY INDUSTRY GROUPS, MARKET CATEGORIES, AND SEASONALITY SERIES
(Millions of dollars)

Industry	Monthly					Quarterly					Not seasonally adjusted ¹											Annual
	Seasonally adjusted					Not seasonally adjusted ¹					Not seasonally adjusted ¹											
	Nov. 1967	Dec. 1967	Jan. 1968	Feb. 1968	Mar. 1968	IV 1967	III 1967	II 1967	I 1967		Dec. 1967	Nov. 1967	Oct. 1967	Sept. 1967	Aug. 1967	July 1967	June 1967	May 1967	April 1967	March 1967	1967	
TOTALS	10,611	10,672	10,696	10,720	10,735	40,978	40,976	40,975	40,974		112,266	112,266	112,266	112,266	112,266	112,266	112,266	112,266	112,266	112,266	112,266	1,273,715
All manufacturing industries.....	10,611	10,672	10,696	10,720	10,735	40,978	40,976	40,975	40,974		112,266	112,266	112,266	112,266	112,266	112,266	112,266	112,266	112,266	112,266	112,266	1,273,715
Manufacturing industries.....	10,611	10,672	10,696	10,720	10,735	40,978	40,976	40,975	40,974		112,266	112,266	112,266	112,266	112,266	112,266	112,266	112,266	112,266	112,266	112,266	1,273,715
Manufacturing industries with unfilled orders.....	8,036	8,036	8,036	8,036	8,036	30,384	30,384	30,384	30,384		80,384	80,384	80,384	80,384	80,384	80,384	80,384	80,384	80,384	80,384	80,384	932,835
Durable goods industries.....	6,521	6,521	6,521	6,521	6,521	24,084	24,084	24,084	24,084		24,084	24,084	24,084	24,084	24,084	24,084	24,084	24,084	24,084	24,084	24,084	281,551
Durable goods with unfilled orders.....	4,694	4,694	4,694	4,694	4,694	17,280	17,280	17,280	17,280		17,280	17,280	17,280	17,280	17,280	17,280	17,280	17,280	17,280	17,280	17,280	201,551
Nondurable goods industries.....	2,106	2,106	2,106	2,106	2,106	7,900	7,900	7,900	7,900		7,900	7,900	7,900	7,900	7,900	7,900	7,900	7,900	7,900	7,900	7,900	80,284
Nondurable goods with unfilled orders.....	1,336	1,336	1,336	1,336	1,336	4,694	4,694	4,694	4,694		4,694	4,694	4,694	4,694	4,694	4,694	4,694	4,694	4,694	4,694	4,694	50,784
Capital goods industries.....	6,106	6,106	6,106	6,106	6,106	22,084	22,084	22,084	22,084		22,084	22,084	22,084	22,084	22,084	22,084	22,084	22,084	22,084	22,084	22,084	261,284
Capital goods with unfilled orders.....	4,281	4,281	4,281	4,281	4,281	15,280	15,280	15,280	15,280		15,280	15,280	15,280	15,280	15,280	15,280	15,280	15,280	15,280	15,280	15,280	181,284
Household durable goods industries.....	2,106	2,106	2,106	2,106	2,106	7,900	7,900	7,900	7,900		7,900	7,900	7,900	7,900	7,900	7,900	7,900	7,900	7,900	7,900	7,900	80,284
Household durable goods with unfilled orders.....	1,336	1,336	1,336	1,336	1,336	4,694	4,694	4,694	4,694		4,694	4,694	4,694	4,694	4,694	4,694	4,694	4,694	4,694	4,694	4,694	50,784
Capital goods industries.....	6,106	6,106	6,106	6,106	6,106	22,084	22,084	22,084	22,084		22,084	22,084	22,084	22,084	22,084	22,084	22,084	22,084	22,084	22,084	22,084	261,284
Capital goods with unfilled orders.....	4,281	4,281	4,281	4,281	4,281	15,280	15,280	15,280	15,280		15,280	15,280	15,280	15,280	15,280	15,280	15,280	15,280	15,280	15,280	15,280	181,284
Nondefense.....	5,714	5,714	5,714	5,714	5,714	20,384	20,384	20,384	20,384		20,384	20,384	20,384	20,384	20,384	20,384	20,384	20,384	20,384	20,384	20,384	241,284
Defense.....	4,392	4,392	4,392	4,392	4,392	16,700	16,700	16,700	16,700		16,700	16,700	16,700	16,700	16,700	16,700	16,700	16,700	16,700	16,700	16,700	199,999
INDUSTRY GROUPS AND INDUSTRIES																						
Durable goods, industries.....	10,611	10,672	10,696	10,720	10,735	40,978	40,976	40,975	40,974		112,266	112,266	112,266	112,266	112,266	112,266	112,266	112,266	112,266	112,266	112,266	1,273,715
Stones, clay, and glass.....	1,586	1,586	1,586	1,586	1,586	5,952	5,952	5,952	5,952		5,952	5,952	5,952	5,952	5,952	5,952	5,952	5,952	5,952	5,952	5,952	70,284
Primary metals.....	1,111	1,111	1,111	1,111	1,111	3,952	3,952	3,952	3,952		3,952	3,952	3,952	3,952	3,952	3,952	3,952	3,952	3,952	3,952	3,952	46,284
Chemical and allied products.....	6,770	6,770	6,770	6,770	6,770	24,036	24,036	24,036	24,036		24,036	24,036	24,036	24,036	24,036	24,036	24,036	24,036	24,036	24,036	24,036	281,284
Nonferrous and other primary metal products.....	4,886	4,886	4,886	4,886	4,886	17,280	17,280	17,280	17,280		17,280	17,280	17,280	17,280	17,280	17,280	17,280	17,280	17,280	17,280	17,280	201,284
Fabricated metal products.....	10,406	10,406	10,406	10,406	10,406	36,036	36,036	36,036	36,036		36,036	36,036	36,036	36,036	36,036	36,036	36,036	36,036	36,036	36,036	36,036	421,284
Transportation equipment.....	14,417	14,417	14,417	14,417	14,417	50,384	50,384	50,384	50,384		50,384	50,384	50,384	50,384	50,384	50,384	50,384	50,384	50,384	50,384	50,384	592,284
Construction, mining, and material-handling equipment.....	4,810	4,810	4,810	4,810	4,810	16,700	16,700	16,700	16,700		16,700	16,700	16,700	16,700	16,700	16,700	16,700	16,700	16,700	16,700	16,700	199,999
Material-handling equipment.....	2,909	2,909	2,909	2,909	2,909	10,384	10,384	10,384	10,384		10,384	10,384	10,384	10,384	10,384	10,384	10,384	10,384	10,384	10,384	10,384	121,284
General industrial machinery.....	1,251	1,251	1,251	1,251	1,251	4,392	4,392	4,392	4,392		4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	4,392	50,784
See footnotes at end of table.																						

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued 1
(Millions of dollars.)

SIC	Industry	Seasonally adjusted				Quarterly				Not seasonally adjusted ¹								Total			
		Monthly				IV 1980				Last 4 months				Year-to-date							
		Dec. 1980 ²	Nov. 1980 ²	Oct. 1980	Sep. 1980	1980	1980	1980	1980	Dec. 1980 ²	Nov. 1980 ²	Oct. 1980	Sep. 1980	Dec. 1979	Nov. 1979	Oct. 1979	Sep. 1979	1980	1979		
INDUSTRY GROUPS AND INDUSTRIES-- (Continued)																					
Durable goods industries-- (Continued)																					
36	Electrical machinery.....	10,385	11,459	11,098	9,977	31,942	30,444	30,701	10,170	11,094	11,738	10,642	9,837	9,487	10,047	10,401	11,578	11,578			
361,2	Household and commercial distribution equipment and appliances.....	1,865	1,750	1,851	1,609	5,406	4,969	5,369	1,706	1,665	1,897	1,642	1,519	1,644	1,795	1,736	20,653	21,724			
363	Household appliances.....	1,080	1,260	1,293	1,242	3,533	3,439	3,073	1,011	1,121	1,224	1,000	1,057	1,000	1,115	1,133	13,711	12,758			
365	Radio and TV.....	786	672	732	736	2,190	2,234	1,907	815	765	892	858	587	622	466	738	8,428	7,445			
369	Communication equipment.....	3,317	3,900	3,532	2,994	10,729	9,712	10,029	3,400	3,673	3,910	3,355	3,482	3,693	3,166	3,273	30,076	36,076			
37	Transportation equipment.....	1,631	1,672	1,670	1,670	4,860	4,860	4,860	1,469	1,469	1,469	1,469	1,469	1,469	1,469	1,469	11,855	20,416			
372,0	Aircraft, missiles, and parts.....	17,228	15,957	15,007	17,687	48,189	48,026	44,502	14,209	15,401	15,089	15,082	16,230	16,241	15,281	16,233	158,428	215,323			
3731	Shipbuilding and military equipment.....	5,017	4,824	3,286	5,272	11,327	14,748	19,574	5,187	3,867	5,929	5,839	6,286	5,158	6,338	6,189	5,418	65,796			
3735	Instrument and related products.....	1,771	636	716	2,388	3,113	4,457	2,427	1,583	634	997	2,269	985	700	955	766	1,461	8,474			
38	Food, kindred, and textile products.....	3,969	3,600	3,581	3,573	11,151	10,401	9,779	4,002	3,641	3,726	3,770	3,359	3,244	3,590	3,387	3,438	37,165			
24	All other durable goods industries.....	6,062	7,917	7,949	7,451	21,478	21,669	20,325	7,160	7,755	8,346	8,068	6,649	7,370	8,338	8,341	89,487	91,170			

¹ Preliminary. ² Revised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radio and TV, optical instruments, watches, and miscellaneous personal goods.
Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.
Nondefense products--Comparable to the previous nondefense products (old series) categories.
Nondefense products--Comparable to the previous nondefense products (old series) categories.
Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.
The data are comparable to those published annually in the MA 175, 'Shipments to Federal Government Agencies' (formerly Shipments of Intense-Substituted Industries), for the specified industries.

Household durable goods industries—household furniture, kitchen articles and pottery.

Line	Description	1911-1912									
		1911	1912	1913	1914	1915	1916	1917	1918	1919	1920
1	Grain and mill products	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
2	Meat and meat products	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
3	Dairy products	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
4	Other food products	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
5	Alcohol and tobacco	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
6	Textile mill products	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
7	Other textile products	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
8	Chemical and allied products	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
9	Metals and metal products	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
10	Other non-metallic mineral products	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
11	Other products	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
12	Imports	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
13	Exports	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
14	Total	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000

Table 6. MANUFACTURERS' INVENTORY, INVENTORY, AND ORDER--MONTH-TO-MONTH AND 1980-1981 PERCENT CHANGES

(Based on seasonally adjusted data)

Item and industry group	Month-to-month			Average monthly rates of change				Average, 1980-1981	
	Nov. 1980 ^a	Oct. 1980 ^b	Sept.- Oct. 1980	3 months			1 month	Average 1980	Average decline
				Sept.- 1980	Aug. 1980	Sept.- 1980	Dec., 1980 Nov., 1980		
Shipments:									
All manufacturing industries.....	+0.5	+0.7	+2.6	+1.2	+0.6	+1.4	+0.7	+1.8	+1.1
Durable goods industries.....	-0.4	+0.3	+3.8	+1.2	+3.1	+3.1	+0.6	+2.9	+1.9
Nondurable goods industries.....	+1.4	+1.0	+1.3	+1.2	+1.7	+0.7	+0.8	+1.0	+0.9
Inventories:									
All manufacturing industries.....	+0.5	+0.3	+0.3	+0.1	+0.1	+0.3	+0.1	+0.2	+0.1
New orders:									
All manufacturing industries.....	+1.9	+1.1	+1.8	+1.4	+1.9	+1.1	+0.7	+1.4	+1.2
Durable goods industries.....	+1.8	+0.4	+2.1	+1.5	+0.9	+1.0	+0.6	+1.3	+1.2
Nondurable goods industries.....	+2.1	+0.6	+1.4	+1.3	+2.9	+1.1	+0.8	+1.0	+0.9
Unfilled orders:									
Durable goods industries.....	+1.1	+1.1	+0.4	+0.7	+0.1	+0.5	+0.4	+1.2	+0.9

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Dec., 1980	Nov., 1980	Oct., 1980	Sept., 1980	Dec., 1980	Nov., 1980	Oct., 1980	Sept., 1980
All manufacturing industries.....	1.55	1.55	1.53	1.60	1.54	1.51	1.51	1.50
Durable goods industries.....	2.04	2.02	2.01	2.10	4.21	4.17	4.18	4.29
Stone, clay, and glass products.....	1.43	1.37	1.40	1.38	0.62	0.60	0.68	0.66
Primary metals.....	1.61	1.64	1.70	1.78	2.44	2.48	2.52	2.50
Fabricated metals.....	1.88	1.90	1.88	2.00	2.98	2.99	3.02	3.11
Machinery, except electrical.....	2.63	2.64	2.62	2.68	4.22	4.21	4.17	4.11
Electrical machinery.....	2.18	2.04	2.06	2.13	3.90	3.66	3.62	3.71
Transportation equipment.....	2.26	2.14	2.19	2.11	13.08	12.61	12.48	12.61
Instruments and related products.....	2.24	2.13	2.11	2.33	1.70	1.70	1.71	1.76
Nondurable goods industries.....	1.05	1.07	1.07	1.09	0.71	0.69	0.71	0.69
Food and kindred products.....	0.94	0.98	0.99	0.96	(X)	(X)	(X)	(X)
Tobacco products.....	2.84	3.22	3.11	3.25	(X)	(X)	(X)	(X)
Textile mill products.....	1.56	1.49	1.48	1.48	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.23	1.24	1.23	1.22	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.28	1.32	1.30	1.31	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.54	0.53	0.57	0.62	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.22	1.15	1.18	1.20	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. ^RRevised. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass container; metal cans, barrels, and drums; fire machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastic products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



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Manufacturers' Shipments, Inventories, and Orders

JANUARY 1981

M3-1(81)-1

For Wire Transmission 2:30 P.M. E.S.T. Wednesday March 4, 1981

(All figures in text below are in seasonally adjusted current dollars.)



U.S. Department of Commerce
BUREAU OF THE CENSUS

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m3-1(81)-1

New orders for manufactured products in January declined \$0.5 billion or 0.3 percent from December to \$161.6 billion the Department of Commerce, Bureau of the Census reported today. This is the first decline in new orders since the 4-month series of declines recorded in February through May of last year.

New orders for manufactured durable goods in January were down \$1.5 billion or 1.9 percent to \$81.1 billion. The largest decline was reported in the primary metals category, where steel orders dropped \$1.6 billion or 24 percent to \$5.2 billion. This is the third consecutive monthly decline for that industry and the largest reported since a 27 percent drop in March 1975. The volume of steel orders for January 1980 was \$5.8 billion and January 1979, \$7.3 billion.

The other major decline in durable goods new orders came from the transportation equipment industry, which decreased \$1.1 billion or 6.3 percent to \$16.1 billion. Most of the drop was caused by declines in the shipbuilding and motor vehicle industries.

New orders for machinery showed a large increase for January. Electrical and nonelectrical machinery orders were up 7.8 percent and 7.4 percent, respectively, with nearly all types of machinery showing order increases.

Within the capital goods industries, new orders for non-defense capital goods were up \$2.2 billion or 10.3 percent to \$23.9 billion, reflecting both machinery and commercial aircraft order increases. Orders for defense capital goods dropped 29 percent following a 31 percent increase last month.

Shipments of manufactured goods in January increased \$1.8 billion or 1.1 percent to \$161.1 billion. The increase in the petroleum industry of \$2.0 billion or 12.8 percent to \$17.3 billion more than offset declines reported by many durable and nondurable industries. The largest declines within the durable goods category were in steel shipments, down \$0.5 billion or 7.0 percent to \$6.2 billion; and motor vehicles, down \$0.3

billion or 3.3 percent to \$9.3 billion. Within the nondurable goods category, shipments by the chemical industry were down \$0.6 billion or 3.8 percent to \$15.0 billion, following a 10.4 percent increase in December.

Manufacturers' backlog of orders showed a small increase for the month of \$0.5 billion or 0.2 percent to \$291.3 billion. The only significant increases occurred in the machinery categories where the unfilled orders level for the nonelectrical category increased \$0.8 billion or 1.4 percent, and for the electrical category \$0.8 billion or 1.9 percent. The backlog of steel orders declined in January \$1.0 billion or 5.3 percent.

The book value of manufacturers' inventories in January rose \$4.5 billion or 1.9 percent to \$249.0 billion. This is the largest 1-month percentage increase since the 2.3 percent recorded in December 1974. Within the durable goods categories, industries showing increases of greater than 3.0 percent were aircraft, up \$1.2 billion or 5.1 percent; steel, up \$0.4 billion or 3.3 percent; and motor vehicles, up \$0.2 billion or 3.2 percent. Within the nondurable goods category, 5 of the 10 major industries reported increases larger than 3.0 percent.

By stage of fabrication, both the raw materials and work in process categories increased significantly. The value of raw materials rose 2.3 percent, while work in process went up 2.7 percent. The value of finished goods inventories increased only 0.3 percent.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for February is scheduled for release on March 20, 1981, and the full report is scheduled for release on March 31, 1981.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	Seasonally adjusted												Not seasonally adjusted ¹											
		Monthly						Quarterly						Monthly						Last 4 months a year ago					
		Dec.		Nov.		Oct.		IV		III		II		Jan.		Dec.		Nov.		Oct.		Nov.		Oct.	
		1987	1980	1987	1980	1987	1980	1986	1980	1986	1980	1986	1980	1987	1980	1987	1980	1987	1980	1987	1980	1987	1980	1987	1980
TOTALS																									
	All manufacturing industries.....	161,110	139,313	157,722	136,647	473,742	445,085	426,664	148,731	132,435	136,634	182,184	134,638	130,754	1,798,539	1,492,001									
	Manufacturing industries excluding transportation.....	165,618	143,486	161,605	140,264	523,355	466,340	486,151	164,315	137,444	140,121	144,527	125,698	113,933	1,619,352	1,497,560									
	Manufacturing industries with unfilled orders.....	92,847	82,642	82,133	81,616	246,411	231,334	224,405	75,111	74,639	81,486	84,424	73,380	74,437	79,380	942,448	894,021								
	Durable goods industries.....	40,369	80,027	79,741	79,447	249,265	221,172	230,706	72,135	76,033	78,676	82,721	70,187	72,706	78,660	902,723	887,777								
	Durable goods with unfilled orders.....	67,073	66,896	66,411	65,900	199,249	185,402	174,104	60,556	64,525	63,384	67,948	59,377	60,066	63,069	737,071	722,730								
	Nondurable goods industries.....	90,541	79,396	77,981	77,200	234,477	223,923	211,778	73,477	78,402	77,880	74,488	69,311	70,380	75,094	895,816	804,224								
	Nondurable goods with unfilled orders.....	15,774	15,746	15,722	15,646	47,114	46,134	45,101	16,555	15,134	15,902	16,468	14,013	14,071	15,431	184,377	170,291								
MARKET CATEGORIES																									
	Home goods and apparel.....	11,511	11,251	11,406	11,649	34,306	32,790	31,461	9,481	9,014	11,984	13,016	9,766	11,237	12,184	133,376	125,723								
	Consumer staples.....	28,693	29,038	27,911	27,962	86,411	83,855	77,924	26,855	28,542	28,437	29,236	24,124	26,341	26,830	324,748	298,916								
	Business and defense products.....	32,213	32,771	32,864	32,765	68,430	66,390	64,298	20,774	23,389	22,196	22,422	18,438	21,743	19,467	20,714	283,997	236,734							
	Automotive equipment.....	11,195	11,478	11,944	11,659	34,426	31,439	27,304	10,772	10,028	11,900	13,203	10,463	9,537	11,482	13,306	127,266	131,020							
	Construction materials, supplies, and intermediate products.....	13,761	13,613	13,370	13,266	40,254	38,969	39,846	11,856	12,396	13,062	13,889	11,092	11,423	12,543	13,637	147,692	148,806							
	Other materials, supplies, and intermediate products.....	72,747	71,172	70,362	69,216	210,930	194,260	141,641	49,000	61,478	64,140	64,423	61,118	62,216	64,078	801,557	730,782								
SUPPLEMENTARY SERIES ²																									
	Household durable goods industries.....	5,204	5,009	4,998	5,212	15,214	14,501	13,428	4,463	4,540	5,202	5,786	4,384	4,957	5,485	58,835	55,938								
	Capital goods industries.....	75,842	75,498	72,176	72,857	232,557	224,035	207,068	22,556	21,497	21,967	21,465	24,205	22,434	23,416	296,226	267,807								
	Defense.....	3,325	3,188	3,142	3,182	6,244	6,035	5,161	1,209	1,269	1,376	1,791	1,809	3,090	3,061	41,845	232,315								
INDUSTRY GROUPS AND INDUSTRIES																									
	Durable goods industries:																								
32	Textile mill, and glass products.....	4,590	4,567	4,383	4,285	13,235	12,281	11,550	3,803	3,468	4,331	4,640	3,576	4,132	4,552	49,509	48,185								
33	Glass containers.....	625	612	598	582	1,747	1,667	1,584	312	274	381	399	326	310	354	4,617	3,989								
331	Primary metals.....	12,534	12,386	11,797	11,797	36,667	32,154	31,352	11,373	11,373	11,373	12,208	10,659	11,203	12,073	137,984	140,112								
333-9	Blas furnaces, steel mills, nonferrous and other primary metal products.....	6,172	6,635	6,286	5,776	18,697	14,221	14,353	5,986	5,619	5,733	5,603	4,747	5,321	5,734	64,447	68,663								
34	Fabricated metal products.....	5,387	5,863	4,905	4,444	14,712	15,135	16,074	4,704	4,718	4,702	5,028	5,495	4,750	5,131	60,946	58,001								
341	Metal cans, barrels, and drums.....	9,350	10,123	9,944	9,501	30,078	26,852	25,981	8,951	9,713	9,742	10,310	8,568	8,607	9,031	111,466	109,463								
35	Machinery, except electrical.....	890	895	797	813	2,505	2,360	2,374	774	708	668	790	718	657	714	806	9,806	10,046							
351	Engines and turbines.....	15,418	14,729	14,650	14,459	44,128	42,039	40,734	14,027	14,422	13,997	14,825	12,736	13,742	12,527	13,911	16,138	10,066							
352	Transportation equipment.....	1,376	1,135	1,184	1,203	3,522	3,297	3,266	1,254	1,138	1,108	1,132	1,122	969	1,006	1,163	1,342	1,046							
353	Construction, mining, and other heavy equipment.....	1,205	1,145	1,169	1,165	3,479	3,281	3,076	1,250	956	947	1,238	1,039	984	828	1,222	12,367	13,258							
354	Material-handling equipment.....	2,787	2,676	2,448	2,573	7,697	7,658	7,658	2,658	2,438	2,438	2,617	2,502	2,279	2,799	31,334	31,813	10,066							
356	Metalworking machinery.....	931	948	972	983	2,903	2,584	2,624	826	1,007	1,037	1,051	1,091	1,146	1,203	9,407	9,497	10,468							
359	General industrial machinery.....	1,149	1,226	1,216	1,280	3,722	3,584	3,529	1,026	1,242	1,169	1,312	1,091	1,144	1,098	14,463	13,245	10,066							

See footnotes at end of table.

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)											
		Seasonally adjusted						Not seasonally adjusted ¹					
		Monthly			Quarterly			Monthly			Annual		
		Jan. 1960	Dec. 1960	Nov. 1960	Oct. 1960	IV 1960	III 1960	II 1960	Jan. 1960	Dec. 1960	Nov. 1960	Oct. 1960	1979
	INDUSTRY GROUPS AND INDUSTRIES--												
	Continued												
	Durable goods and industries--												
	Continued												
36	Electrical machinery.....	10,627	10,384	10,813	10,747	31,944	30,742	29,819	9,734	10,375	10,932	9,614	123,390
361,2	Household and commercial appliances and distribution equipment and												
363	Household appliances.....	1,640	1,845	1,829	1,773	5,447	5,142	5,028	1,563	1,745	1,803	1,609	20,984
365	Radio and TV.....	1,270	1,179	1,231	1,238	3,648	3,294	3,050	1,068	1,085	1,158	1,290	13,544
366	Communication equipment.....	864	733	805	776	2,334	2,212	1,886	712	755	962	1,043	12,814
367	Transportation equipment.....	1,148	1,068	1,068	1,068	3,433	3,433	3,433	2,905	3,111	3,202	3,598	7,648
37	Transportation equipment.....	15,927	15,837	16,117	16,433	48,387	44,575	40,533	14,051	15,011	16,538	17,662	36,995
371	Motor vehicles and parts.....	9,291	9,607	9,679	9,936	29,222	26,243	22,722	8,785	8,487	10,144	11,191	179,187
372,6	Aircraft, missiles, and parts.....	4,338	4,508	4,685	4,769	13,962	12,942	12,550	3,686	4,791	4,711	4,667	106,030
3731	Shipbuilding and military												
3735	aircraft.....												
38	Instruments and related												
	products.....	3,674	3,735	3,629	3,620	10,984	10,463	9,944	3,308	3,714	3,759	3,771	51,134
381-4	Scientific and engineering.....	2,137	2,207	2,102	2,061	5,974	5,734	5,474	2,018	2,167	2,098	2,103	8,693
382	Photographic goods.....	1,363	1,329	1,356	1,392	4,077	3,946	3,693	1,136	1,377	1,483	1,474	9,738
383	Other scientific and engineering												
384	products.....												
39	All other durable goods												
	and industries.....	8,096	7,956	7,921	7,965	23,842	21,936	20,753	6,797	7,185	7,845	8,507	89,843
	Nondurable goods industries:												
20	Food and kindred products.....	22,412	22,378	22,115	21,825	66,318	65,186	59,809	21,086	22,204	22,427	22,672	252,071
201	Wheat products.....	5,442	5,467	5,467	5,495	16,429	15,999	13,566	5,122	5,522	5,522	5,637	60,124
202	Other grain products.....	1,868	1,855	1,855	1,855	5,635	5,635	5,635	1,832	2,085	2,085	2,085	22,602
203	Meat products.....	1,868	1,855	1,855	1,855	5,635	5,635	5,635	1,832	2,085	2,085	2,085	22,602
204	Pats and oils.....	9,476	9,552	9,552	9,552	27,991	27,331	25,330	8,850	9,638	9,536	9,647	117,539
205-6,9	All other goods.....	1,185	1,264	1,231	1,231	3,666	3,344	3,344	1,135	1,281	1,206	1,290	10,575
21	Tobacco products.....	4,165	4,060	4,021	4,021	12,082	11,924	12,124	3,787	3,824	4,138	4,303	8,793
22	Textile mill products.....	6,205	6,201	6,005	6,055	18,261	17,791	17,239	5,837	5,720	5,926	6,160	13,781
23	Paper and allied products.....	2,941	2,969	2,834	2,809	8,632	8,358	8,217	2,773	2,785	2,881	2,883	48,942
24	Printing and publishing.....	1,898	1,837	1,816	1,800	5,563	5,566	5,555	1,773	1,683	1,788	1,820	66,033
25	All other paper products.....	14,999	15,589	14,121	14,161	43,871	39,699	38,234	13,881	14,301	13,359	13,977	31,462
26	Chemicals and allied products.....	5,339	5,256	4,803	4,991	15,050	13,200	13,154	5,061	4,951	4,554	4,777	121,735
261,6	Industrial chemicals, ex-												
263,4	cept pigments.....	4,020	4,286	3,678	3,874	11,838	11,802	10,968	3,759	4,020	3,604	4,777	56,003
265-3	Petroleum and coal products.....	17,327	15,361	13,590	13,058	44,539	42,639	43,724	17,234	15,748	15,365	14,877	45,103
27	Rubber and plastics products.....	3,646	3,574	3,810	3,796	11,180	11,088	10,236	3,315	3,239	3,694	3,992	175,533
28	n.e.c.....												
29	All other nondurable goods												
	and industries.....	10,796	10,934	11,109	11,067	33,110	32,044	31,268	9,600	10,085	11,465	12,197	43,995
30	Industries.....												
31													

Preliminary.

Revised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; optical goods, watches, and clocks; and miscellaneous personal goods.
 Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.
 Nondefense portions of shipbuilding and repairing and allied equipment industries--Shipbuilding and repairing, and allied equipment industries (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and allied equipment industries (excluding household appliances, radio and TV, and electronic components).
 Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.
 The data are comparable to those published annually in the W-175, "Shipments to Federal Government Agencies" (formerly "Shipments of Defense-Oriented Industries"), for the specified industries.

TABLE 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRIAL GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	Seasonally adjusted										Not seasonally adjusted ¹										Annual	
		Monthly					Quarterly					Monthly											
		Jan. 1960	Dec. 1960	Nov. 1960	Oct. 1960	IV 1960	III 1960	II 1960	Last 4 months				Last 4 months & year ago				1960	1967					
									Jan. 1961	Dec. 1960	Nov. 1960	Oct. 1960	Jan. 1960	Dec. 1959	Nov. 1959	Oct. 1959							
TOTALS																							
	All manufacturing industries.....	181,626	167,157	198,775	198,775	475,086	449,646	420,815	1,111,526	1,111,526	1,111,526	1,111,526	1,111,526	1,111,526	1,111,526	1,111,526	1,111,526	1,111,526	1,111,526	1,111,526	1,111,526	1,899,722	1,732,117
	Manufacturing industries.....	145,564	144,988	144,818	144,818	470,493	470,493	470,493	1,111,526	1,111,526	1,111,526	1,111,526	1,111,526	1,111,526	1,111,526	1,111,526	1,111,526	1,111,526	1,111,526	1,111,526	1,111,526	1,600,480	1,515,439
	Manufacturing industries with unfilled orders.....	81,163	85,426	85,189	85,189	251,655	251,655	251,655	251,655	251,655	251,655	251,655	251,655	251,655	251,655	251,655	251,655	251,655	251,655	251,655	251,655	933,035	933,035
	Durable goods industries.....	91,106	82,654	81,067	81,067	244,146	244,146	244,146	244,146	244,146	244,146	244,146	244,146	244,146	244,146	244,146	244,146	244,146	244,146	244,146	244,146	926,586	926,586
	Durable goods with unfilled orders.....	67,810	69,523	67,717	67,717	208,426	208,426	208,426	208,426	208,426	208,426	208,426	208,426	208,426	208,426	208,426	208,426	208,426	208,426	208,426	208,426	769,079	761,513
	Semi-durable goods industries.....	40,536	41,503	41,503	41,503	124,582	124,582	124,582	124,582	124,582	124,582	124,582	124,582	124,582	124,582	124,582	124,582	124,582	124,582	124,582	124,582	895,061	895,425
	Industries with unfilled orders.....	15,551	15,953	15,959	15,959	47,229	47,229	47,229	47,229	47,229	47,229	47,229	47,229	47,229	47,229	47,229	47,229	47,229	47,229	47,229	47,229	183,662	171,502
	Industries without unfilled orders.....	60,667	63,550	62,239	62,239	187,353	187,353	187,353	187,353	187,353	187,353	187,353	187,353	187,353	187,353	187,353	187,353	187,353	187,353	187,353	187,353	711,439	633,933
MARKET CATEGORIES																							
	Home goods and apparel.....	11,586	11,259	11,459	11,459	34,163	34,163	34,163	34,163	34,163	34,163	34,163	34,163	34,163	34,163	34,163	34,163	34,163	34,163	34,163	34,163	132,544	126,005
	Consumer staples.....	28,636	29,026	27,897	27,897	84,880	84,880	84,880	84,880	84,880	84,880	84,880	84,880	84,880	84,880	84,880	84,880	84,880	84,880	84,880	84,880	326,742	298,939
	Equipment and defense products, except automotive.....	25,073	23,121	22,514	22,514	70,708	70,708	70,708	70,708	70,708	70,708	70,708	70,708	70,708	70,708	70,708	70,708	70,708	70,708	70,708	70,708	275,119	258,447
	Automotive equipment.....	11,260	11,546	11,760	11,760	35,379	35,379	35,379	35,379	35,379	35,379	35,379	35,379	35,379	35,379	35,379	35,379	35,379	35,379	35,379	35,379	125,609	149,571
	Construction materials, supplies, and other materials, supplies, and intermediate products.....	13,569	13,686	13,128	13,128	40,376	40,376	40,376	40,376	40,376	40,376	40,376	40,376	40,376	40,376	40,376	40,376	40,376	40,376	40,376	40,376	146,812	149,383
	Supplementary series ²	71,105	71,577	71,480	70,443	213,490	213,490	213,490	213,490	213,490	213,490	213,490	213,490	213,490	213,490	213,490	213,490	213,490	213,490	213,490	213,490	806,876	749,870
INDUSTRY GROUPS AND INDUSTRIES																							
	Durable goods industries.....	4,517	4,426	4,379	4,379	13,241	13,241	13,241	13,241	13,241	13,241	13,241	13,241	13,241	13,241	13,241	13,241	13,241	13,241	13,241	13,241	49,186	48,165
32	Stone, clay, and glass.....	11,131	12,899	13,039	13,039	7,183	7,183	7,183	7,183	7,183	7,183	7,183	7,183	7,183	7,183	7,183	7,183	7,183	7,183	7,183	7,183	118,680	142,882
33	Blasting furnaces, steel mills, nonferrous and other primary metal products.....	5,166	6,784	7,071	7,071	21,038	21,038	21,038	21,038	21,038	21,038	21,038	21,038	21,038	21,038	21,038	21,038	21,038	21,038	21,038	21,038	67,491	69,121
331-335	Fabricated metal products.....	4,816	5,008	4,872	4,872	15,338	15,338	15,338	15,338	15,338	15,338	15,338	15,338	15,338	15,338	15,338	15,338	15,338	15,338	15,338	15,338	59,802	59,802
34	Machinery, except electrical.....	9,781	10,314	9,884	9,884	30,519	30,519	30,519	30,519	30,519	30,519	30,519	30,519	30,519	30,519	30,519	30,519	30,519	30,519	30,519	30,519	110,702	111,622
35	Construction, mining, and material-handling equipment.....	16,274	15,100	14,822	14,822	44,797	44,797	44,797	44,797	44,797	44,797	44,797	44,797	44,797	44,797	44,797	44,797	44,797	44,797	44,797	44,797	167,648	163,104
351	General industrial machinery.....	1,591	1,323	1,323	1,323	3,633	3,633	3,633	3,633	3,633	3,633	3,633	3,633	3,633	3,633	3,633	3,633	3,633	3,633	3,633	3,633	13,208	13,174
352	Construction, mining, and material-handling equipment.....	3,176	3,016	2,899	2,899	8,420	8,420	7,725	7,725	7,725	7,725	7,725	7,725	7,725	7,725	7,725	7,725	7,725	7,725	7,725	7,725	31,887	32,301
354	General industrial machinery.....	1,328	1,173	1,226	1,226	2,695	2,695	2,695	2,695	2,695	2,695	2,695	2,695	2,695	2,695	2,695	2,695	2,695	2,695	2,695	2,695	11,562	11,486
355	Supplementary series ²	1,328	1,173	1,226	1,226	2,695	2,695	2,695	2,695	2,695	2,695	2,695	2,695	2,695	2,695	2,695	2,695	2,695	2,695	2,695	2,695	11,562	11,486

See footnotes at end of table.

(Millions of dollars)

SIC	Industry	Seasonally adjusted				Not seasonally adjusted ¹													
		Monthly			Quarterly	Monthly				Last 4 months a year ago				Annual					
		Jan. 1981P	Dec. 1980 ²	Nov. 1980		Oct. 1980	IV 1980	III 1980	II 1980	Jan. 1981P	Dec. 1980 ²	Nov. 1980	Oct. 1980	Jan. 1980	Dec. 1979	Nov. 1979	Oct. 1979	1980	1979
INDUSTRY GROUPS AND INDUSTRIES--																			
Continued																			
Durable goods industries--																			
Continued																			
36	Electrical machinery.....	11,394	10,565	11,459	11,098	33,122	30,444	30,700	10,811	10,344	11,094	11,738	10,062	9,837	9,387	10,047	127,506	115,785	
361,2	Electrical transmission and distribution equipment and industrial apparatus.....	1,861	1,905	1,750	1,851	5,506	4,969	5,369	1,882	1,744	1,965	1,897	1,647	1,519	1,644	1,795	21,254	20,653	
363	Household appliances.....	1,221	1,158	1,240	1,203	3,601	3,439	3,073	1,084	1,082	1,121	1,224	1,090	1,057	1,000	1,115	13,602	12,758	
365	Radio and TV.....	858	785	672	732	2,189	2,234	1,907	680	815	765	892	500	587	622	466	8,468	7,445	
366	Communication equipment.....	1,800	3,348	3,900	3,532	10,780	9,712	10,029	3,634	3,432	3,623	3,910	3,115	3,282	2,693	3,166	40,922	34,076	
367	Electronic components.....	1,700	1,619	2,020	1,925	5,564	4,950	5,276	1,725	1,787	1,936	1,787	1,936	1,787	1,936	1,787	20,416	20,416	
37	Transportation equipment.....	16,082	17,169	15,957	15,007	48,133	48,024	44,502	15,634	16,153	15,603	19,089	15,961	16,030	16,341	19,261	185,192	216,523	
372,6	Aircraft, missiles, and parts.....	5,079	4,997	4,624	3,286	12,307	14,748	19,574	4,924	5,336	3,847	5,929	5,547	6,286	5,158	6,138	62,897	65,796	
3731	Shipbuilding and military	888	1,689	636	716	3,041	4,457	2,427	1,070	1,513	634	997	744	989	700	955	12,415	8,964	
3735	Tank vehicles.....	3,658	3,909	3,600	3,581	11,090	10,401	9,779	3,263	3,944	3,641	3,726	3,251	3,359	3,244	3,290	42,380	37,149	
38	Transportation and related products.....																		
24	All other durable goods																		
25	Industries.....	8,324	8,002	7,917	7,949	23,868	21,669	20,325	6,968	7,110	7,755	8,346	6,892	6,649	7,370	8,518	89,437	91,170	

Preliminary.

Revised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day and calendar-month variations.

The separate market categories of the separate industry categories are as follows:

Household durable goods industries--Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household appliances, radio and TV, ophthalmic goods, watches, and clocks and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

The data are comparable to those published annually in the M-17X, "Shipments to Federal Government Agencies" (formerly Shipments of Defense-Related Industries), for the specified industries.

Table 3. VALUE OF MANUFACTURERS' UNFILED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(Billions of dollars)

SIC	Industry	Monthly					Quarterly					Not seasonally adjusted ¹									
		Seasonally adjusted					Monthly					Quarterly					Monthly				
		Jan. 1981 ^p	Dec. 1980	Nov. 1980	Oct. 1980	III 1980	II 1980	I 1980	IV 1979	III 1979	Jan. 1981 ^p	Dec. 1980	Nov. 1980	Oct. 1980	Jan. 1980	Dec. 1979	Nov. 1979	Oct. 1979			
	TOTALS																				
	All manufacturing industries.....	291,260	290,715	287,907	286,849	285,497	281,044	286,907	279,710	273,033	291,883	288,372	286,027	286,830	283,465	277,153	274,721	273,707			
	Manufacturing industries excluding transportation.....	177,862	177,910	176,434	175,216	172,439	171,433	181,265	176,804	174,193	176,850	174,921	173,720	173,588	177,912	173,713	173,347	173,363			
	Durable goods industries.....	280,492	279,746	277,124	275,813	274,622	270,383	274,884	267,879	261,742	281,261	277,772	275,993	276,003	271,821	265,777	263,015	262,521			
	Nondurable goods industries.....	10,768	10,969	10,783	11,036	10,875	10,661	12,023	11,831	11,291	17,622	17,600	16,834	16,827	11,644	11,376	11,706	11,186			
	MARKET CATEGORIES																				
	Home goods, apparel and consumer staples.....	3,960	3,934	3,928	3,988	4,120	4,247	4,717	4,630	4,966	10,000	9,980	9,760	9,760	4,295	4,223	4,515	4,907			
	Equipment and defense products, except automobiles.....	166,757	166,413	162,043	161,652	161,670	159,412	159,073	156,999	150,912	168,009	164,619	162,481	163,091	158,416	155,241	153,125	152,182			
	Construction materials, supplies, and intermediate products.....	19,799	20,009	19,957	20,168	19,883	20,223	20,771	20,910	21,130	19,804	19,765	19,738	19,928	20,391	20,468	20,411	20,468			
	Other materials, supplies, and intermediate products.....	100,744	102,381	101,979	101,041	99,824	96,962	102,346	99,171	96,026	100,382	100,161	100,047	99,751	100,363	97,041	96,670	95,970			
	SUPPLEMENTARY SERIES ²																				
	Household durable goods indus- tries.....	3,093	2,971	2,975	3,100	3,233	3,387	3,680	3,475	3,923	2,803	2,768	2,830	3,152	3,240	3,189	3,385	3,780			
	Capital goods industries.....	195,847	191,616	191,621	191,031	192,126	188,921	185,519	179,310	172,754	197,105	193,785	192,328	193,150	183,532	179,156	177,142	175,353			
	Nondefense.....	134,609	131,017	133,120	133,127	134,955	135,810	136,118	131,819	126,755	134,893	132,815	133,245	134,415	135,004	131,567	129,800	128,695			
	Defense.....	61,238	60,591	58,501	57,904	57,771	53,111	49,401	47,492	46,000	62,212	60,970	59,083	58,735	48,528	47,889	47,342	46,658			
	INDUSTRY GROUPS AND INDUSTRIES																				
	Durable goods industries	2,501	2,578	2,649	2,653	2,553	2,702	3,066	2,917	3,080	2,487	2,453	2,499	2,552	2,635	2,778	2,792	2,852			
2	Stone, clay, and glass.....	29,335	30,738	30,425	29,680	27,731	25,139	29,528	29,962	30,276	29,171	29,435	28,257	27,974	30,199	28,737	28,534	28,806			
3	Primary metals.....	18,091	19,097	18,948	18,163	16,756	15,358	17,359	18,007	18,877	17,820	18,085	17,735	16,928	17,646	17,071	17,304	17,491			
33-4, 9	Nonferrous and other primary metal products.....	9,188	9,539	9,396	9,427	8,892	8,591	9,397	9,334	8,861	9,271	9,493	8,764	8,993	9,795	9,063	8,608	8,763			
4	Fabricated metal products.....	27,462	27,617	27,338	27,396	27,178	28,027	28,737	28,382	27,976	27,599	27,421	27,304	27,370	27,954	28,193	27,836	28,108			
5	Machinery, except electrical....	57,925	57,116	56,747	56,573	56,519	56,495	59,994	58,779	57,585	57,584	56,671	56,570	56,582	59,759	58,353	58,279	57,711			
35	Engines and turbines.....	16,697	16,479	16,659	16,413	16,767	16,650	16,767	16,650	16,785	16,741	16,574	16,566	16,661	16,875	16,828	16,714	16,832			
351	Conveyors, lifting, and material-handling.....	9,169	8,640	8,460	8,383	8,057	7,968	8,877	8,423	8,641	9,111	8,710	8,421	8,257	9,716	9,356	8,125	8,175			
354	Metallworking machinery.....	6,968	6,922	6,917	7,124	7,027	7,586	7,798	7,743	7,757	6,871	6,487	6,429	6,114	7,131	7,027	7,193	7,195			
356	General industrial machinery.	6,262	6,081	6,135	6,126	6,172	6,519	7,183	7,098	7,239	6,205	6,016	6,129	6,114	7,131	7,027	7,193	7,195			

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(Millions of dollars)

SIC	Industry group	Seasonally adjusted					Not seasonally adjusted ¹				
		Monthly			Quarterly		Monthly				
		Jan. 1981 ^b	Dec. 1980 ^c	Nov. 1980 ^c	Oct. 1980 ^c	III 1980 ^c	II 1980 ^c	I 1980 ^c	IV 1979 ^c	III 1979 ^c	Last 6 months a year ago Dec. 1980 Nov. 1979 Oct. 1979
36	INDUSTRY GROUP AND INDUSTRIES-- Continued										
361,2	Durable goods industries-- Continued										
361	Electrical machinery.....	40,477	39,710	39,431	38,884	38,334	38,830	37,944	35,631	34,858	
362	Electrical transmission and distribution equipment.....	8,103	7,883	7,823	7,903	7,925	8,000	7,657	7,531	7,418	
363	Industrial appliances.....	4,403	4,354	4,364	4,405	4,480	4,531	4,370	4,342	4,300	
365	Radio and TV.....	307	313	321	394	438	416	395	342	359	
366	Communication equipment.....	20,656	20,004	19,077	18,961	18,659	18,365	17,592	16,123	15,803	
367	Electronic components.....	10,049	10,174	10,380	10,268	10,225	10,792	11,014	10,308	9,604	
37	Transportation equipment.....	113,398	112,805	111,473	111,653	113,058	109,611	105,642	102,906	98,840	
372,6	Aircraft, missiles, and space vehicles.....	90,270	89,578	89,089	89,150	90,632	88,827	81,804	77,829	73,098	
3731	Shipbuilding and military tank vehicles.....	14,051	14,032	13,116	13,228	13,203	11,205	11,237	11,297	11,146	
3795	Instruments and related products.....	6,324	6,341	6,165	6,195	6,232	6,295	6,459	5,985	5,830	
38	All other durable goods industries.....	3,070	2,841	2,796	2,799	2,817	3,084	3,514	3,317	3,297	

^a Preliminary.

^b Revised.

^c Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances, radio and TV, ophthalmic goods, watches, and clocks; and miscellaneous personal goods.
Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.
Nondefense products--Comparable to the previous nondefense products (old series) categories.
Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.
The data are comparable to those published annually in the W-175, "Shipments to Federal Government Agencies" (formerly "Shipments of Defense-oriented Industries"), for the specified industries.
Beginning in 1976, the fiscal year for the Federal Government probably affected the awarding of contracts and other financial arrangements. Although the impact of this change is not known, the use of previously established seasonal factors would have substantially distorted the current data since those seasonal factors reflect historical government purchasing patterns. Therefore, beginning in July 1977, new composite seasonal factors were calculated for the defense industries. These factors are based on the same pattern of fluctuations as the composite factors for the nondefense industries. These composite factors were applied to the unfilled orders data for each of the separately tabulated defense industries. This adjustment also modified the new orders data. Similar adjustment could be made for the nondefense industries since such data are not compiled separately. This method of calculating the seasonal factors will be used until a sufficient amount of data are available to assess the impact of the change in the fiscal year on the seasonal pattern of the defense industries.

Table 4. VALUE OF MANUFACTURES, INDUSTRIES, THE TEN-STEP GROUPS, MARKET APPROPRIATIONS, AND SUPPLEMENTARY SERIES
(Millions of dollars)

SIC	Industry	Months				Quarters				Yearly				Not seasonally adjusted			
		Seasonally adjusted				Last 4 months				Last 4 months a year ago							
		Quarterly				Last 4 months				Last 4 months a year ago							
		Jan. 1981 ¹	Feb. 1980 ²	Nov. 1980	Oct. 1980	III 1980	II 1980	I 1980	IV 1979	III 1979	Jan. 1981 ¹	Nov. 1980 ²	Oct. 1980	Jan. 1980	Dec. 1979	Nov. 1979	Oct. 1979
TOTALS																	
311	All manufacturing industries.....	254,021	264,693	266,090	264,976	254,415	253,810	259,537	284,258	271,441	231,602	233,547	227,658	225,134	222,296		
312	Food, kindred products.....	212,343	209,296	209,460	208,986	210,924	207,975	207,975	208,982	197,900	167,461	169,147	168,127	164,898	152,623		
313	Textile mill, apparel.....	174,710	169,969	169,969	169,969	168,887	168,887	168,887	168,887	167,449	166,561	166,561	166,561	156,539	155,134		
314	Chemical and allied products.....	164,907	160,907	160,907	160,907	160,907	160,907	160,907	160,907	158,486	158,486	158,486	158,486	148,457	146,672		
315	Metals and metal products.....	134,306	131,325	130,939	129,081	129,081	129,081	129,081	129,081	124,106	124,106	124,106	124,106	118,401	116,339		
316	Nonmetallic mineral products.....	84,098	82,596	81,714	80,934	81,276	81,276	81,276	81,276	75,993	75,993	75,993	75,993	76,277	75,424		
317	Stoneware, glass, and other nonmetallic products.....	19,206	18,624	18,436	18,436	18,434	18,434	18,434	18,434	18,939	18,939	18,939	18,939	17,090	16,734		
MARKET CATEGORIES																	
32	Home goods and apparel.....	18,351	17,480	17,480	17,480	17,465	17,466	17,466	17,466	17,466	17,466	17,466	17,466	16,960	16,825		
33	Consumer staples.....	31,273	31,773	31,773	31,773	31,773	31,773	31,773	31,773	31,773	31,773	31,773	31,773	30,394	30,312		
331	Food, kindred products, except alcoholic.....	71,101	69,967	69,967	69,967	69,967	69,967	69,967	69,967	69,967	69,967	69,967	69,967	60,457	58,937		
332	Textile mill, apparel.....	9,455	9,073	9,073	9,073	9,073	9,073	9,073	9,073	9,073	9,073	9,073	9,073	8,104	7,848		
333	Chemical and allied products.....	20,081	20,035	19,706	19,491	19,491	19,491	19,491	19,491	20,166	20,166	20,166	20,166	19,381	18,361		
334	Metals and metal products, except primary.....	98,738	95,951	95,967	95,950	96,490	97,506	96,497	95,111	85,470	99,461	96,336	95,465	92,573	89,647		
SUPPLEMENTARY SERIES																	
34	Household durable goods industries.....	9,222	9,155	9,000	9,034	9,058	9,267	9,311	9,180	8,847	9,060	8,854	8,710	8,880	8,670		
35	Non-durable goods industries.....	27,425	26,173	26,173	26,173	26,173	26,173	26,173	26,173	26,173	26,173	26,173	26,173	25,468	24,429		
36	Defense.....	12,438	12,038	11,627	11,110	10,588	10,075	9,462	8,553	11,725	11,725	11,725	11,725	10,619	10,130		
INDUSTRY GROUPS AND INDUSTRIES																	
32	Durable goods industries.....	6,137	6,027	5,904	5,976	5,970	5,951	5,987	5,643	5,436	6,197	5,955	5,743	5,723	5,341		
33	Non-durable goods industries.....	20,851	20,148	20,148	20,055	20,187	20,187	20,187	19,803	19,033	21,156	20,634	20,162	19,967	19,354		
331	Food, kindred products, except alcoholic.....	11,266	10,854	10,854	10,850	11,465	11,465	11,465	10,434	10,457	11,549	11,309	11,006	10,948	10,619		
332	Textile mill, apparel.....	8,264	8,060	7,967	7,848	7,741	7,741	7,741	7,563	7,166	8,252	8,000	7,880	7,723	7,525		
333	Chemical and allied products.....	19,478	19,173	18,917	18,952	18,952	19,451	19,459	19,402	18,716	19,309	18,635	18,474	18,303	18,157		
334	Metals and metal products, except primary.....	1,525	1,468	1,468	1,468	1,468	1,468	1,502	1,554	1,497	1,465	1,286	1,165	1,143	1,137		
35	Machinery, except electrical.....	38,548	38,352	38,582	39,107	38,960	38,960	37,609	36,674	35,527	38,660	38,227	38,132	37,428	36,530		
36	Engines and turbines.....	2,539	2,529	2,553	2,553	2,553	2,558	2,703	2,701	2,630	2,539	2,512	2,555	2,448	2,634		
37	Farm machinery and equipment.....	2,631	2,631	2,631	2,631	2,631	2,631	2,631	2,631	2,631	2,631	2,631	2,631	2,631	2,631		
38	Transportation equipment.....	2,947	2,947	2,947	2,947	2,947	2,947	2,947	2,947	2,947	2,947	2,947	2,947	2,947	2,947		
39	Material-handling machinery.....	8,206	8,206	8,206	8,206	8,206	8,206	8,206	8,206	8,206	8,206	8,206	8,206	8,206	8,206		
40	Metallurgical machinery.....	2,462	2,462	2,462	2,462	2,462	2,462	2,462	2,462	2,462	2,462	2,462	2,462	2,462	2,462		
41	General industrial machinery.....	3,725	3,670	3,663	3,663	3,715	3,725	3,671	3,650	3,550	3,610	3,610	3,610	3,610	3,610		

See footnotes at end of table.

Table 6. PERCENT CHANGES AND REVISION RATES OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent changes							Revision rate ²		
	Month-to-month			Average monthly rates of change ¹				Year ago	Average monthly	
	Dec. 1980- Jan. 1981	Nov.- Dec. 1980	Oct.- Nov. 1980	Fourth quarter 1980	Third quarter 1980	Second quarter 1980	Jan. 1980- Jan. 1981	Jan. 1980	Jan.- Dec. 1980	Jan. 1976-1980
Shipments:										
All manufacturing industries.....	+1.1	+1.0	+0.7	+1.4	+2.6	-1.9	+0.5	+0.4	0.3	0.3
Durable goods industries.....	+0.4	+0.4	+0.3	+1.5	+3.5	-3.1	+0.3	+0.3	0.3	0.6
Nondurable goods industries.....	+1.8	+1.7	+1.0	+1.3	+1.7	-0.7	+0.7	+0.4	0.5	0.5
Inventories:										
All manufacturing industries.....	+1.9	+0.2	+0.5	+0.1	-0.0	+0.7	+0.6	0.0	0.1	0.2
New orders:										
All manufacturing industries.....	-0.3	+2.1	+0.5	+1.5	+3.9	-3.0	+0.3	+0.7	0.3	0.6
Durable goods industries.....	-1.9	+2.0	+0.4	+1.5	+5.9	-5.0	-0.0	+0.7	0.5	0.9
Nondurable goods industries.....	+1.3	+2.3	+0.5	+1.4	+1.9	-1.1	+0.7	+0.6	0.5	0.6
Unfilled orders:										
Durable goods industries.....	+0.3	+0.9	+0.5	+0.6	+0.5	-0.5	+0.3	+0.1	0.1	0.2

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²Represents the revision in the percentage change between the preliminary and final estimates. The revision rates between the advance and final estimates for durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Jan. 1981	Dec. 1980	Nov. 1980	Oct. 1980	Jan. 1981	Dec. 1980	Nov. 1980	Oct. 1980
All manufacturing industries.....	1.55	1.53	1.55	1.55	3.52	3.52	3.51	3.51
Durable goods industries.....	2.05	2.02	2.02	2.01	4.18	4.18	4.17	4.18
Stone, clay, and glass products.....	1.34	1.33	1.37	1.40	0.60	0.62	0.66	0.68
Primary metals.....	1.66	1.61	1.64	1.70	2.34	2.44	2.48	2.52
Fabricated metals.....	1.96	1.88	1.90	1.88	3.04	2.96	2.99	3.02
Machinery, except electrical.....	2.50	2.60	2.64	2.62	4.08	4.20	4.21	4.17
Electrical machinery.....	2.13	2.13	2.04	2.06	3.81	3.82	3.66	3.62
Transportation equipment.....	2.37	2.22	2.14	2.09	13.34	12.83	12.61	12.48
Instruments and related products.....	2.30	2.26	2.33	2.31	1.72	1.70	1.70	1.71
Nondurable goods industries.....	1.04	1.04	1.07	1.07	0.68	0.70	0.69	0.71
Food and kindred products.....	0.93	0.95	0.98	0.99	(X)	(X)	(X)	(X)
Tobacco products.....	3.06	2.79	3.22	3.02	(X)	(X)	(X)	(X)
Textile mill products.....	1.50	1.55	1.49	1.48	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.25	1.21	1.24	1.23	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.28	1.19	1.32	1.30	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.50	0.55	0.53	0.57	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.26	1.25	1.15	1.18	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. ^RRevised. (X) Not applicable.¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

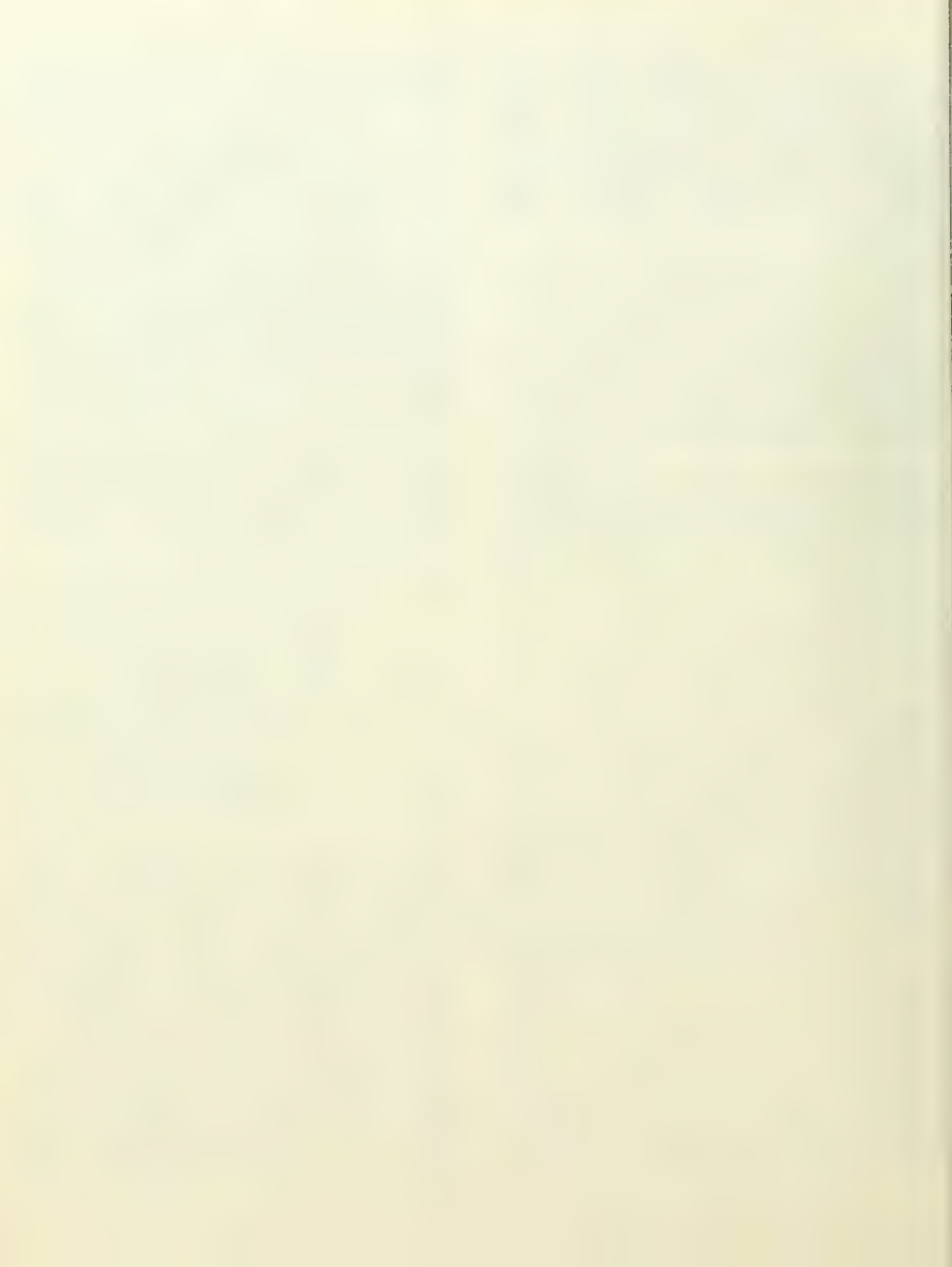
Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.



A black and white cartoon illustration of a man in a trench coat and hat, carrying a large bag with arrows and a flashlight. The man is wearing a fedora-style hat with a light on top. He has a large, stylized nose and is smiling. He is carrying a large bag with three arrows pointing up, down, and right. He is also holding a flashlight in his right hand. The man is wearing a trench coat with a button and a pocket. He is also wearing boots. The background is plain.

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Manufacturers' Shipments, Inventories, and Orders

FEBRUARY 1981

M3-1(81)-2
For Wire Transmission 2:30 P.M. E.S.T. Tuesday, March 31, 1981

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in February were valued at \$161.3 billion, down \$0.8 billion or 0.5 percent from January. New orders for durable goods for February totaled \$81.5 billion, virtually unchanged from January. New orders for nondurable goods, where approximately 80 percent of new orders directly reflect shipments for the month, were down \$0.9 billion or 1.1 percent to \$79.9 billion.

For the durable goods industries, increases in new orders for primary and fabricated metal products were offset by declines in the nonelectrical machinery and transportation equipment industries. Within the primary metals category, steel orders were up \$0.9 billion or 17.5 percent to \$6.1 billion. Despite this large increase, the volume of steel orders was below the high for 1980 of \$7.2 billion reported last October. Nonferrous primary metals were up \$0.5 billion or 10 percent to \$5.1 billion. The decline in nonelectrical machinery orders of \$1.2 billion or 7.1 percent to \$15.4 billion was widespread throughout the industry. The decline in the transportation equipment industry of \$0.8 billion or 5.2 percent to \$15.3 billion was caused by the aircraft industry where a decrease of \$1.5 billion or 27 percent more than offset increases in all of the other transportation industries.

New orders for the nondefense capital goods industries as a group fell \$4.0 billion or 16.2 percent to \$20.5 billion in February. This is the largest one month decline in that category since an 18.3 percent decline in July of 1971. New orders for defense capital goods, although volatile on a month-to-month basis, continued to increase in volume. February defense orders were valued at \$5.5 billion, up \$1.3 billion or 32 percent. This large increase followed a January decline of 28 percent and a December increase of 31 percent.

Shipments of manufactured goods in February declined \$0.4 billion or 0.2 percent to \$160.8 billion as decreases in the non-

durable goods industries more than offset the increases in durable goods industries. Shipments by chemical, food, petroleum, and rubber and plastics products manufacturers all showed declines.

The increases in shipments of durable goods manufacturers were scattered and relatively small. Within the transportation equipment category, the motor vehicle and parts industry reported its first increase since October, going up \$0.3 billion or 3.0 percent to \$9.3 billion.

Manufacturers' backlog of orders showed a small increase in February of \$0.5 billion or 0.2 percent to \$292.2 billion. The increase in the backlog of orders of electrical machinery manufacturers of \$0.7 billion or 1.7 percent to \$41.2 billion was partially offset by declines in the primary metals and transportation equipment categories.

The book value of manufacturers' inventories in February increased \$2.8 billion or 1.1 percent to \$251.2 billion, following a January increase of 1.6 percent. Unlike January, nondurable goods manufacturers showed a larger increase than durable goods producers. More than half of the \$1.6 billion or 1.9 percent increase in nondurable goods inventories in February was accounted for by the chemicals and petroleum industries. The only significant inventory increase in a durable goods category occurred in the steel industry where the book value increased 2.4 percent. The inventory to shipments ratio in February stood at 1.56, as compared to 1.54 in January and 1.53 in December.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for March is scheduled for release on April 21, 1981, and the full report is scheduled for release on April 30, 1981.

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Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURES' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	(Billions of dollars)														
		Seasonally adjusted					Not seasonally adjusted ¹									
		Monthly					Quarterly									
		Yearly					Yearly									
		Feb. 1981 ²	Jan. 1981 ²	Dec. 1980	Nov. 1980	TV 1980	III 1980	II 1980	I 1980	1980	1981 ²	Jan. 1981 ²	Dec. 1980	Nov. 1980	Feb. 1980	1979
TOTALS																
	All manufacturing industries.....	160,792	161,148	159,333	157,122	473,742	445,185	426,684	404,884	1,614,049	1,614,049	153,732	153,732	153,732	153,732	153,732
	Manufacturing industries excluding transportation.....	145,230	145,806	143,486	141,665	425,335	400,219	386,131	366,131	1,454,049	1,454,049	137,444	137,444	137,444	137,444	137,444
	Manufacturing industries with unfilled orders.....	83,818	83,965	82,642	82,133	246,411	231,334	224,205	218,753	860,000	860,000	79,238	79,238	79,238	79,238	79,238
	Durable goods industries.....	80,819	80,239	80,027	79,741	239,265	221,172	210,776	202,776	800,000	800,000	73,093	73,093	73,093	73,093	73,093
	Durable goods industries with unfilled orders.....	67,703	67,149	66,896	66,411	199,297	185,402	179,134	171,134	677,000	677,000	60,725	60,725	60,725	60,725	60,725
	Nondurable goods industries.....	79,993	80,889	79,296	77,981	234,477	223,913	215,978	208,992	817,049	817,049	73,646	73,646	73,646	73,646	73,646
	Nondurable goods with unfilled orders.....	19,115	15,896	13,746	13,122	47,114	46,132	45,201	44,301	184,000	184,000	14,773	14,773	14,773	14,773	14,773
MARKET CATEGORIES																
	Home goods and apparel.....	12,023	11,482	11,251	11,406	34,306	32,796	31,961	31,961	114,000	114,000	9,914	9,914	9,914	9,914	9,914
	Consumer staples.....	28,070	28,347	29,098	27,911	86,411	81,855	77,429	76,700	280,000	280,000	26,377	26,377	26,377	26,377	26,377
	Automotive.....	23,157	23,442	22,771	22,884	69,439	66,300	64,498	63,294	209,000	209,000	22,196	22,196	22,196	22,196	22,196
	Automotive equipment.....	11,315	10,969	11,478	11,489	34,916	31,439	27,309	25,565	101,000	101,000	10,106	10,106	10,106	10,106	10,106
	Construction materials, supplies, and intermediate products.....	13,957	13,703	13,613	13,370	40,249	35,992	33,546	32,649	126,000	126,000	12,336	12,336	12,336	12,336	12,336
	Other goods, services, and intermediate products.....	72,600	72,805	71,172	70,562	213,930	194,480	191,461	184,401	713,000	713,000	67,918	67,918	67,918	67,918	67,918
SUPPLEMENTARY SERIES ³																
	Household durable goods industries.....	5,329	5,119	5,009	4,988	15,219	14,501	13,828	13,828	52,000	52,000	4,600	4,600	4,600	4,600	4,600
	Capital goods industries.....	25,890	26,129	25,498	25,716	76,832	73,869	72,176	70,486	235,000	235,000	20,432	20,432	20,432	20,432	20,432
	Nondefense.....	1,231	1,243	1,212	1,198	3,572	3,329	3,184	3,113	10,000	10,000	1,138	1,138	1,138	1,138	1,138
	Defense.....	3,903	3,886	3,726	3,818	11,360	10,575	10,161	9,913	33,000	33,000	3,362	3,362	3,362	3,362	3,362
INDUSTRY GROUPS AND INDUSTRIES																
	Durable goods industries:															
	Stone, clay, and glass products.....	4,621	4,336	4,567	4,383	13,235	12,281	11,550	11,550	42,000	42,000	3,968	3,968	3,968	3,968	3,968
	Primary metal industries.....	12,455	12,527	12,587	12,586	37,819	36,221	34,374	33,374	119,000	119,000	11,374	11,374	11,374	11,374	11,374
	Nonferrous and other primary metals.....	6,205	6,205	6,435	6,286	18,697	16,221	14,353	14,353	52,000	52,000	5,819	5,819	5,819	5,819	5,819
	Fabricated metal products.....	5,128	5,175	4,863	4,905	14,712	15,135	14,074	14,074	51,500	51,500	4,694	4,694	4,694	4,694	4,694
	Chemical and allied products.....	10,022	9,818	10,233	9,944	30,078	26,892	25,981	25,981	98,000	98,000	8,846	8,846	8,846	8,846	8,846
	Drugs, chemicals, and allied products.....	870	851	895	787	2,505	2,360	2,287	2,287	8,000	8,000	783	783	783	783	783
	Machinery, except electrical.....	15,485	15,362	14,729	14,650	44,128	42,099	40,734	39,734	155,000	155,000	14,122	14,122	14,122	14,122	14,122
	Engines and turbines.....	1,231	1,316	1,135	1,184	3,572	3,297	3,266	3,266	11,000	11,000	1,138	1,138	1,138	1,138	1,138
	Farm machinery and equipment.....	1,120	1,136	1,145	1,169	3,479	3,281	3,076	3,076	11,000	11,000	1,131	1,131	1,131	1,131	1,131
	Construction, mining, and other nonmetallic mineral products.....	2,753	2,764	2,676	2,648	7,697	7,658	7,676	7,676	26,000	26,000	2,607	2,607	2,607	2,607	2,607
	Metals, metalworking, and allied products.....	1,918	1,931	1,948	1,972	5,803	5,584	5,264	5,264	18,000	18,000	1,607	1,607	1,607	1,607	1,607
	Nonmetallic mineral products.....	1,194	1,142	1,226	1,216	3,772	3,584	3,529	3,529	12,000	12,000	1,242	1,242	1,242	1,242	1,242

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted					Quarterly					Monthly					Not seasonally adjusted ¹					Annual	
		Monthly					Quarterly					Monthly					Monthly					Annual	
		Jan. 1981 ²	Feb. 1981 ²	Mar. 1981 ²	Dec. 1980	Nov. 1980	TV 1980	III 1980	II 1980	I 1980	Jan. 1981 ²	Feb. 1981 ²	Mar. 1981 ²	Dec. 1980	Nov. 1980	Jan. 1981 ²	Feb. 1981 ²	Mar. 1981 ²	Dec. 1980	Nov. 1980	Jan. 1981 ²	1980	1979
INDUSTRY GROUPS AND INDUSTRIES--Continued																							
Durable goods and industries--Continued																							
36	Electrical machinery.....	10,943	10,681	10,384	10,813	10,813	31,944	30,742	29,819	11,085	9,784	10,375	10,932	10,617	9,204	9,720	9,614	123,390	110,713				
361,2	Electrical and electronic equipment and distribution equipment and industrial apparatus.....	1,727	1,650	1,845	1,829	1,829	5,447	5,142	5,028	1,835	1,572	1,745	1,803	1,609	1,334	1,696	1,696	20,984	19,915				
363	Household appliances.....	1,212	1,302	1,179	1,231	1,231	3,648	3,294	3,050	1,233	1,095	1,085	1,138	1,104	1,064	1,064	1,064	13,354	12,814				
365	Radio and TV.....	3,911	3,827	3,733	3,805	3,805	6,314	6,218	6,086	2,266	2,926	3,141	3,151	3,145	2,588	3,183	2,797	36,995	32,433				
369	Electronic components.....	1,917	1,835	1,825	1,908	1,825	5,615	5,518	5,459	1,948	1,756	1,810	1,934	1,926	1,608	1,563	1,557	21,973	17,820				
37	Transportation equipment.....	15,552	15,342	15,837	16,117	16,117	48,387	40,533	13,952	13,895	15,011	16,338	16,734	13,853	13,660	15,310	179,187	194,461					
371	Motor vehicles and parts.....	9,334	9,061	9,607	9,679	9,679	29,222	26,243	22,722	9,661	8,568	8,487	10,144	10,124	8,803	9,438	106,030	129,384					
372,6	Aircraft, missiles, and parts.....	4,282	4,489	4,508	4,685	4,685	13,962	12,942	12,550	4,417	3,798	4,791	4,711	3,999	3,219	4,049	3,884	51,134	43,804				
3731	Parts, accessories, and related products.....	879	842	773	748	748	2,212	2,459	2,459	831	736	873	760	798	769	946	763	9,738	8,693				
3795	Instrument and related products.....	3,183	3,691	3,735	3,629	3,629	10,984	10,463	9,944	3,651	3,324	3,714	3,359	3,485	3,030	3,248	3,304	42,026	36,433				
381-4	Scientific and engineering instruments.....	2,127	2,139	2,207	2,102	2,102	5,994	5,734	5,734	2,110	2,019	2,174	2,174	2,174	1,822	2,174	1,822	15,750	12,587				
382,6	Photographic goods.....	1,457	1,372	1,329	1,356	1,356	4,077	3,946	3,693	1,348	1,177	1,483	1,483	1,483	1,034	1,151	1,247	15,750	12,587				
25	All other durable goods industries.....	8,178	8,099	7,956	7,921	7,921	23,842	21,936	20,753	7,839	6,791	7,185	7,445	7,709	6,832	6,795	7,385	89,843	90,885				
Non-durable goods industries:																							
20	Meat products.....	21,894	22,478	22,378	22,115	22,115	66,318	65,186	59,809	22,132	20,963	22,427	20,931	18,903	20,392	20,518	252,071	234,438					
201	Meat products.....	5,403	5,279	5,467	5,467	5,467	16,429	15,589	13,566	5,317	5,359	5,522	5,429	4,905	5,292	5,252	60,124	62,002					
208	Beverages.....	2,644	2,576	2,495	2,520	2,520	7,652	8,190	7,739	2,329	2,128	2,265	2,463	2,248	2,114	2,215	2,438	31,134	27,599				
209	Fats and oils.....	1,720	1,862	1,858	1,852	1,852	5,433	5,070	4,377	1,822	1,635	1,796	1,796	1,462	1,462	1,462	10,575	9,378					
21	All other food products.....	9,343	9,343	9,343	9,343	9,343	27,666	27,666	27,666	9,343	9,343	9,343	9,343	9,343	9,343	9,343	9,343	105,775	93,778				
22	Textile mill products.....	4,386	4,273	3,995	4,060	4,060	12,082	11,924	12,124	4,319	3,666	3,824	4,138	4,258	3,814	3,782	4,059	13,784	12,992				
221	Textile mill products.....	4,386	4,273	3,995	4,060	4,060	12,082	11,924	12,124	4,319	3,666	3,824	4,138	4,258	3,814	3,782	4,059	13,784	12,992				
26	Pulp and allied products.....	6,257	6,191	6,201	6,005	6,005	18,261	17,791	17,239	6,376	5,824	5,720	5,526	5,969	5,705	5,556	5,540	70,991	66,033				
261-3	Pulp, paper, etc.....	2,992	2,892	2,969	2,854	2,854	8,632	8,358	8,217	3,004	2,734	2,734	2,734	2,734	2,734	2,734	2,734	33,462	30,991				
265	Paperboard containers.....	1,474	1,406	1,395	1,335	1,335	4,086	3,867	3,867	1,381	1,178	1,178	1,178	1,178	1,178	1,178	1,178	13,462	12,587				
28	All other paper products.....	1,893	1,893	1,893	1,893	1,893	5,543	5,543	5,543	1,893	1,893	1,893	1,893	1,893	1,893	1,893	1,893	21,616	21,616				
281	Chemical and allied products.....	14,903	15,286	15,389	14,121	14,121	43,871	39,699	38,234	15,230	14,464	14,301	13,559	13,637	12,918	12,533	12,515	162,390	149,181				
281,6	Industrial chemicals, except pigments.....	5,343	5,227	5,256	4,803	4,803	15,050	13,200	13,154	5,572	4,556	4,951	4,554	5,010	4,658	4,331	4,425	56,003	51,793				
281,6	Drugs, soap, and toiletries.....	3,721	4,038	4,286	3,678	3,678	11,838	11,802	10,968	3,799	3,815	4,020	3,604	3,608	3,322	3,282	3,282	31,776	33,462				
29	Petroleum and coal products.....	15,674	16,964	15,361	15,390	15,390	42,989	42,639	43,724	16,980	16,844	15,748	15,363	14,560	13,827	13,485	12,776	175,533	134,964				
30	Rubber and plastics products.....	3,436	3,664	3,574	3,810	3,810	11,180	11,088	10,236	3,485	3,330	3,239	3,694	3,930	3,677	3,279	3,532	43,995	44,742				
23	All other non-durable goods industries.....	11,184	11,037	10,934	11,109	11,109	33,110	32,044	31,268	11,270	9,807	10,085	11,465	10,402	9,596	9,664	10,559	128,272	116,234				

Preliminary.

Revised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day variations.²The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; electronic components, and personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Non-durable goods industries--Comparable to the previous producers' non-durable goods and the defense products (old series) categories.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the WA-175, "Shipments to Federal Government Agencies" (formerly "Shipments of Defense-Oriented Industries") for the specified industries.

Table 2. VALUES OF MANUFACTURES: NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Billions of dollars)

SIC	Industry	Seasonally adjusted				Quarterly				Monthly				Not seasonally adjusted ¹			
		Monthly				Quarterly				Monthly				Not seasonally adjusted ¹			
		Feb. 1981 ²	Jan. 1981 ²	Dec. 1980	Nov. 1980	IV 1980	III 1980	II 1980	I 1980	Feb. 1981 ²	Jan. 1981 ²	Dec. 1980	Nov. 1980	Dec. 1980	Jan. 1981	Nov. 1980	Annual
TOTALS		161,316	162,090	162,157	158,775	478,986	489,706	420,813	385,449	150,140	150,799	141,884	140,860	140,860	140,860	1,806,777	1,734,018
All manufacturing industries.....		145,989	145,926	144,988	142,418	430,853	401,522	376,413	349,147	139,088	139,088	139,088	139,088	139,088	139,088	1,661,880	1,611,447
Manufacturing industries excluding transportation.....		86,352	86,007	85,476	83,186	251,456	233,495	216,136	181,716	70,489	69,000	68,000	67,000	67,000	67,000	893,400	893,400
Manufacturing industries with unfilled orders.....		81,453	81,336	82,694	81,062	244,196	229,417	206,108	182,157	67,482	66,482	65,482	64,482	64,482	64,482	843,751	843,751
Durable goods industries.....		68,337	68,246	69,323	67,717	205,426	188,647	174,208	158,343	56,489	55,489	54,489	53,489	53,489	53,489	700,789	700,789
Durable goods with unfilled orders.....		79,863	80,754	79,503	77,728	234,542	229,129	214,617	81,079	93,459	93,459	93,459	93,459	93,459	93,459	860,642	860,642
Nondurable goods industries.....		16,015	15,761	15,993	15,469	47,224	46,348	43,346	16,441	14,886	14,886	14,886	14,886	14,886	14,886	181,000	171,000
Industries with unfilled orders.....		63,848	64,993	63,510	62,259	187,319	187,163	170,877	64,638	71,171	71,171	71,171	71,171	71,171	71,171	893,400	893,400
Industries without unfilled orders.....																	
MARKET CATEGORIES																	
Home goods and apparel.....		12,407	11,821	11,269	11,559	34,143	32,475	31,464	12,365	10,187	9,742	11,708	11,478	11,478	11,478	100,408	126,408
Consumer staples.....		28,006	28,558	29,046	27,847	86,808	83,804	77,912	48,076	26,713	24,042	25,042	24,042	24,042	24,042	250,317	246,042
Equipment and defense products.....		23,745	25,848	25,073	23,121	70,708	66,489	66,243	23,634	15,154	14,486	14,486	14,486	14,486	14,486	100,408	100,408
Automotive.....		11,473	11,026	11,566	11,760	35,179	31,303	25,613	11,469	10,446	10,446	10,446	10,446	10,446	10,446	100,408	100,408
Construction materials, supplies, and intermediate products.....		13,530	13,551	13,696	13,158	40,376	35,450	33,196	12,428	11,387	12,428	12,428	12,428	12,428	12,428	100,408	100,408
Other consumer goods and intermediate products.....		72,215	71,286	71,577	71,480	213,490	197,426	186,451	75,184	68,106	68,106	68,106	68,106	68,106	68,106	800,408	749,408
SUPPLEMENTARY SERIES ³																	
Household durable goods industries.....		5,656	5,322	5,005	5,871	14,459	14,459	13,493	5,656	4,333	4,333	4,333	4,333	4,333	4,333	50,408	50,408
Capital goods industries.....		20,537	20,716	21,673	21,859	66,140	61,634	61,715	21,254	11,711	11,711	11,711	11,711	11,711	11,711	100,408	100,408
Nondefense.....		5,520	4,193	5,825	4,453	14,186	15,139	13,773	5,114	4,470	4,470	4,470	4,470	4,470	4,470	50,408	50,408
Defense.....																	
INDUSTRY GROUPS AND INDUSTRIES																	
Durable goods industries:																	
2	Stone, clay, and glass.....	4,637	4,471	4,496	4,379	13,261	12,131	11,184	4,256	3,806	3,422	3,404	3,414	3,414	3,414	40,408	40,408
3	Primary metals.....	12,317	10,977	12,899	13,029	39,673	34,777	37,000	11,418	11,418	11,418	11,418	11,418	11,418	11,418	100,408	100,408
33-35	Primary metal products.....	6,120	5,508	6,784	7,071	21,018	16,620	11,361	7,068	5,069	5,109	5,612	5,612	5,612	5,612	50,408	50,408
34	Fabricated metal products.....	5,162	4,676	5,008	4,872	15,336	15,636	13,967	5,332	4,533	4,014	4,281	4,281	4,281	4,281	50,408	50,408
35	Machinery, except electrical.....	10,004	9,705	10,514	9,884	30,519	26,006	25,471	9,773	8,429	7,754	7,914	7,914	7,914	7,914	100,408	100,408
351	Engines and turbines.....	15,374	16,465	15,100	14,822	44,728	41,925	37,437	16,026	15,245	15,021	14,985	14,985	14,985	14,985	100,408	100,408
352	Engines and turbines.....	1,241	1,710	956	1,323	3,369	3,198	2,911	1,301	1,444	1,135	1,106	1,106	1,106	1,106	50,408	50,408
353	Machine tools.....	3,107	3,321	3,016	2,505	8,620	7,745	6,756	3,156	3,056	2,915	2,915	2,915	2,915	2,915	50,408	50,408
354	Metalworking machinery.....	767	1,000	953	764	2,568	2,254	2,413	806	851	840	840	840	840	840	50,408	50,408
356	General industrial machinery.....	1,077	1,381	1,173	1,226	3,633	3,237	2,867	1,183	1,459	1,128	1,184	1,184	1,184	1,184	50,408	50,408

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)																
		Seasonally adjusted					Not seasonally adjusted ¹											
		Monthly					Quarterly					Monthly					Annual	
		Feb. 1981P	Jan. 1981r	Dec. 1980	Nov. 1980	IV 1980	III 1980	II 1980	Last 4 months a year also					Nov. 1979	1979			
							Feb. 1981P	Jan. 1981r	Dec. 1980	Nov. 1980	Feb. 1980	Jan. 1980	Dec. 1979	Nov. 1979				
INDUSTRY GROUPS AND INDUSTRIES--																		
Continued																		
Durable goods industries--																		
Continued																		
36	Electrical machinery.....	11,643	11,420	10,565	11,459	33,122	30,444	30,700	11,855	10,831	10,344	11,094	11,680	10,062	9,837	9,387	127,506	113,784
361,2	Electrical transmission and distribution equipment and apparatus.....	1,821	1,860	1,905	1,750	5,506	4,969	5,369	1,970	1,882	1,764	1,965	2,048	1,647	1,519	1,544	21,436	20,551
363	Household appliances.....	1,304	1,259	1,158	1,240	3,601	3,439	3,073	1,310	1,116	1,082	1,121	1,176	1,090	1,057	1,000	13,602	12,758
365	Radio and TV.....	1,009	863	785	672	2,189	2,234	1,907	1,032	688	815	765	865	500	587	522	8,444	7,445
366	Communication equipment.....	3,608	3,766	3,348	3,900	10,780	9,712	10,059	3,535	3,597	3,432	3,423	3,527	3,115	3,284	2,693	40,922	34,576
367	Electronic components.....	1,997	1,695	1,619	2,020	5,364	4,950	5,276	2,108	1,720	1,485	1,963	2,194	1,926	1,960	1,834	21,845	20,416
37,2,5	Transportation equipment.....	15,327	15,164	17,169	15,357	48,153	46,024	44,502	15,269	15,713	16,435	15,603	16,132	14,901	16,030	16,341	185,192	179,218
37,2,6	Aircraft.....	4,008	5,467	4,997	4,924	12,907	14,748	19,574	3,669	5,127	5,336	3,867	4,130	5,567	6,286	5,158	92,837	85,796
3731	Shipbuilding and military	1,059	856	1,689	936	3,041	4,457	2,847	1,058	999	1,513	934	732	744	989	706	12,415	8,964
3795	Instruments and related	3,819	3,761	3,909	3,600	11,090	10,601	9,779	3,683	3,363	3,964	3,663	3,630	3,253	3,559	3,246	62,386	67,149
38	All other durable goods																	
24	Industries.....	8,332	8,391	8,002	7,917	23,868	21,669	20,325	8,057	6,928	7,110	7,755	7,760	6,892	6,649	7,370	83,433	81,176
25	Industries.....																	

Preliminary.

Revised.

¹Shipment and new orders are totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The data are comparable to those published annually in the W-15, "Shipments to Federal Government Agencies," for the shipbuilding and shiprepairing industries.

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SIC	Industry	Seasonally adjusted										Not seasonally adjusted ¹									
		Months					Quarterly					Monthly									
		Feb. 1981 p	Jan. 1981 p	Dec. 1980	Nov. 1980	111 1980	11 1980	10 1979	9 1979	111 1979	111 1979	Feb. 1981 p	Jan. 1981 p	Dec. 1980	Nov. 1980	Feb. 1980	Jan. 1980	Dec. 1979	Nov. 1979		
TOTALS																					
	All manufacturing industries.....	292,209	291,627	290,735	287,907	285,437	281,086	286,407	277,730	275,093	274,008	284,008	274,215	280,272	286,000	286,000	281,201	277,912	277,133	274,221	
	Manufacturing industries.....	178,809	178,050	177,930	176,436	174,439	171,433	161,465	167,866	170,194	170,490	174,490	177,066	174,923	173,120	181,201	177,912	173,713	173,713	173,713	
	Food, kindred product, and kindred products.....	284,456	280,825	279,746	277,124	276,622	270,493	274,866	267,867	261,382	261,382	261,382	261,382	261,382	261,382	261,382	261,382	261,382	261,382	261,382	
	Durable goods industries.....	10,751	10,852	10,869	10,764	10,875	10,904	12,029	11,891	11,284	11,284	11,284	11,284	11,284	11,284	11,284	11,284	11,284	11,284	11,284	
	Nondurable goods industries.....	4,404	4,088	3,916	3,926	3,912	3,912	3,912	3,912	3,912	3,912	3,912	3,912	3,912	3,912	3,912	3,912	3,912	3,912	3,912	
MARKET CATEGORIES																					
	House, goods, apparel and consumer goods.....	167,595	166,872	166,410	165,363	164,636	164,411	164,073	163,999	163,012	162,562	162,117	162,419	162,483	162,483	162,483	162,483	162,483	162,483	162,483	
	Equipment and defense products, except automotive.....	19,711	19,859	20,009	19,957	19,889	20,421	20,771	20,713	21,130	19,793	19,063	19,760	19,718	20,003	20,191	20,606	20,411	20,411	20,411	
	Construction materials, supplies, and intermediate products.....	100,479	100,862	102,392	101,976	99,824	99,960	102,346	99,171	96,026	101,336	100,445	100,151	100,067	103,012	100,363	97,041	96,479	96,479	96,479	
SUPPLEMENTARY SERIES²																					
	Household durable goods industries.....	3,467	3,144	3,971	3,275	3,234	3,187	3,680	3,475	3,923	3,393	2,691	197,462	193,783	192,328	186,186	181,532	174,336	177,142	177,142	
	Capital goods industries.....	131,636	130,769	133,017	133,120	134,155	135,810	136,118	131,859	136,735	136,735	136,735	136,735	136,735	136,735	136,735	136,735	136,735	136,735	136,735	
	Defense.....	62,723	61,107	60,599	59,401	57,771	53,011	59,401	57,492	56,000	56,000	56,000	56,000	56,000	56,000	56,000	56,000	56,000	56,000	56,000	
INDUSTRY GROUPS AND INDUSTRIES																					
Durable goods industries																					
32	Stones, clay, and glass.....	2,529	2,512	2,578	2,649	2,553	2,702	3,006	2,917	3,080	2,526	2,526	2,526	2,526	2,526	2,526	2,526	2,526	2,526	2,526	
33	Primary metals.....	29,087	29,185	30,738	30,425	27,711	25,139	29,548	29,962	30,276	29,962	29,962	29,962	29,962	29,962	29,962	29,962	29,962	29,962	29,962	
331	Blast furnaces, steel mills.....	18,014	18,100	19,097	18,968	16,736	14,398	17,439	18,007	18,817	18,817	18,817	18,817	18,817	18,817	18,817	18,817	18,817	18,817	18,817	
331-6	Nonferrous and other primary metals.....	9,053	9,038	9,539	9,496	8,892	8,593	9,197	9,036	9,036	9,036	9,036	9,036	9,036	9,036	9,036	9,036	9,036	9,036	9,036	
34	Fabricated metal products.....	27,486	27,505	27,617	27,138	27,178	28,032	28,733	28,182	27,927	27,927	27,927	27,927	27,927	27,927	27,927	27,927	27,927	27,927	27,927	
35	Machinery, except electrical.....	58,187	58,097	57,116	56,747	56,519	56,695	59,996	58,779	57,595	58,198	57,786	56,671	56,671	56,671	56,671	56,671	56,671	56,671	56,671	
351	Engines and turbines.....	16,844	16,833	16,479	16,659	16,413	16,412	16,767	16,630	16,785	16,872	16,872	16,872	16,872	16,872	16,872	16,872	16,872	16,872	16,872	
352	Construction, mining, and transport equipment.....	9,560	9,486	8,780	8,640	8,057	7,988	8,677	8,423	8,041	8,530	8,530	8,530	8,530	8,530	8,530	8,530	8,530	8,530	8,530	
356	Metallurgical machinery.....	6,760	6,580	6,922	6,917	7,257	7,586	7,592	7,592	7,592	7,592	7,592	7,592	7,592	7,592	7,592	7,592	7,592	7,592	7,592	
356-9	General industrial machinery.....	2,306	2,332	2,083	2,115	2,127	2,143	2,153	2,153	2,153	2,153	2,153	2,153	2,153	2,153	2,153	2,153	2,153	2,153	2,153	

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(Millions of dollars)

SIC	Industry group	Seasonally adjusted				Quarterly				Not seasonally adjusted ¹			
		Monthly		Quarterly		Quarterly		Quarterly		Monthly		Monthly	
		Feb. 1981P	Jan. 1980	Dec. 1980	Nov. 1980	1980	1980	1980	1979	Feb. 1981P	Jan. 1980	Dec. 1980	Nov. 1979
	INDUSTRY GROUP AND INDUSTRIES--Continued												
	Durable goods industries--Continued												
36	Electric, electronic, and optical machinery.....	41,151	40,452	39,710	39,531	38,554	38,830	37,944	35,631	41,189	40,423	39,374	38,245
361,2	Electrical transmission and distribution equipment and industrial apparatus.....	8,197	8,094	7,883	7,825	7,800	7,657	7,531	7,418	8,314	8,080	7,770	7,626
363	Household appliances.....	421	394	423	480	333	310	364	364	446	390	372	334
364	Radio and television sets.....	20,937	20,460	20,004	18,659	18,365	17,532	16,123	15,603	21,071	20,803	19,850	18,720
365	Electronic components.....	10,115	10,034	10,174	10,225	10,792	11,014	10,308	9,604	9,034	9,874	9,930	10,727
367	Transportation equipment.....	113,400	113,627	112,805	111,473	113,058	109,611	105,642	102,906	114,605	115,267	113,449	105,420
372,c	Aircraft, missiles, and space vehicles.....	90,282	90,556	89,578	89,089	90,632	88,827	81,804	77,929	91,358	92,104	90,031	81,271
3731	Ships.....	16,226	14,946	14,012	13,116	11,203	11,205	11,237	11,146	14,211	14,005	13,742	13,102
3745	Instrument and related products.....	6,448	6,412	6,341	6,165	6,232	6,295	6,459	5,985	6,375	6,343	6,092	6,333
25	All other durable goods industries.....	3,188	3,033	2,841	2,796	2,817	3,084	3,314	3,317	2,999	2,781	2,664	2,721
39	Industries.....												
	Preliminary.....												
	Revised.....												

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware, household appliances, radio and TV, electronic components, and miscellaneous personal goods.

Consumer goods--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products--Machinery, except electrical (excluding farm machinery and electrical machinery), and miscellaneous nondefense products (excluding household appliances, radio and TV, and electronic components), the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the M-175, Shipments to Federal Government Agencies (formerly Shipments to Independent Industries) for the specified industries.

Beginning in 1976, the fiscal year for the Federal Government probably affected the awarding of contracts and other financial arrangements. Although the impact of this change is not known, the use of previously established fiscal years for the supplementary series is more appropriate than the use of the fiscal year beginning in July 1977, was opposite to the fiscal year used for the supplementary series.

Seasonal factors were developed by combining the existing end-of-fiscal year information with data for the previous calendar quarter. This adjustment also modified the new orders data. Seasonal adjustments could not be made for nondefense government orders applied to the unfilled orders data for each of the series. It is estimated that the seasonal pattern of the defense industries is similar to that of the nondefense industries.

Since such data are not compiled separately, this method of calculating the seasonal factors will be used until a sufficient amount of data are available to assess the impact of the change in the fiscal year on the seasonal pattern of the defense industries.

Table 4. VALUE OF MANUFACTURES, INVESTMENTS AND INVENTORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	Seasonally adjusted										Not seasonally adjusted ¹									
		Yearly					Quarterly					Monthly					Yearly				
		1960	1965	1970	1975	1980	1985	1990	1995	2000	2005	1960	1965	1970	1975	1980	1985	1990	1995	2000	2005
		1984P	1989P	1994P	1999P	2004P	2009P	2014P	2019P	2024P	2029P	1960	1965	1970	1975	1980	1985	1990	1995	2000	2005
TOTALS																					
311	All manufacturing industries, excluding transportation, nondurable goods	251,183	244,493	243,613	243,039	239,322	239,298	231,341	232,807	229,354	243,733	242,731	236,738	233,547	227,638	225,334					
312	Textile mill, apparel, clothing, transportation, nondurable goods	214,576	204,266	209,396	208,986	207,022	208,346	192,763	215,926	213,278	209,075	208,466	205,846	203,459	198,147	194,893					
313	Food, kindred industries, nondurable goods	174,764	170,226	169,469	168,724	168,482	168,709	157,429	175,327	172,779	168,144	167,344	163,142	160,445	156,329	155,156					
314	Durable goods industries, nondurable goods with unfilled orders	106,143	104,938	104,977	104,993	104,902	104,922	104,922	104,922	104,922	104,922	104,922	104,922	104,922	104,922	104,922					
315	Durable goods industries, nondurable goods with unfilled orders	15,126	14,244	14,132	14,048	14,048	14,048	14,048	14,048	14,048	14,048	14,048	14,048	14,048	14,048	14,048					
316	Nondurable goods industries, nondurable goods with unfilled orders	65,000	61,470	62,486	63,424	64,440	65,456	66,472	67,488	68,504	69,520	70,536	71,552	72,568	73,584	74,600					
317	Nondurable goods industries, nondurable goods with unfilled orders	19,260	18,342	18,426	18,510	18,594	18,678	18,762	18,846	18,930	19,014	19,098	19,182	19,266	19,350	19,434					
MARKET CATEGORIES																					
32	Home goods and apparel	18,305	18,287	18,118	17,949	17,780	17,611	17,442	17,273	17,104	16,935	16,766	16,597	16,428	16,259	16,090					
322	Class containers	31,760	31,400	31,040	30,680	30,320	30,000	29,680	29,360	29,040	28,720	28,400	28,080	27,760	27,440	27,120					
323	Equipment and defense products, except automotive	71,576	71,105	70,634	70,163	69,692	69,221	68,750	68,279	67,808	67,337	66,866	66,395	65,924	65,453	64,982					
324	Automotive equipment	9,112	9,308	9,504	9,700	9,896	10,092	10,288	10,484	10,680	10,876	11,072	11,268	11,464	11,660	11,856					
325	Construction materials, supplies, and intermediate products	26,206	26,179	26,152	26,125	26,098	26,071	26,044	26,017	25,990	25,963	25,936	25,909	25,882	25,855	25,828					
326	Intermediate products	60,826	60,131	59,436	58,741	58,046	57,351	56,656	55,961	55,266	54,571	53,876	53,181	52,486	51,791	51,096					
SUPPLEMENTARY SERIES																					
327	Household durable goods industries	9,260	9,170	9,080	9,000	8,920	8,840	8,760	8,680	8,600	8,520	8,440	8,360	8,280	8,200	8,120					
328	Capital goods industries	80,647	80,034	79,421	78,808	78,195	77,582	76,969	76,356	75,743	75,130	74,517	73,904	73,291	72,678	72,065					
329	Nondefense	88,039	87,585	87,131	86,677	86,223	85,769	85,315	84,861	84,407	83,953	83,499	83,045	82,591	82,137	81,683					
330	Defense	12,608	12,449	12,038	11,833	11,605	11,377	11,150	10,923	10,696	10,469	10,242	10,015	9,788	9,561	9,334					
INDUSTRIAL GOODS AND INDUSTRIES																					
331	Durable goods industries	7,198	6,128	6,067	5,994	5,921	5,848	5,775	5,702	5,629	5,556	5,483	5,410	5,337	5,264	5,191					
332	Stone, clay, and glass products	368	352	343	334	325	316	307	298	289	280	271	262	253	244	235					
333	Chemical and allied products, primary metal, nonferrous and other primary metals	11,476	11,208	10,984	10,760	10,536	10,312	10,088	9,864	9,640	9,416	9,192	8,968	8,744	8,520	8,296					
334	Fabricated metal products	19,467	19,508	19,425	19,342	19,259	19,176	19,093	19,010	18,927	18,844	18,761	18,678	18,595	18,512	18,429					
335	Metal cans, barrels, and machinery, except electrical	1,903	1,876	1,848	1,820	1,792	1,764	1,736	1,708	1,680	1,652	1,624	1,596	1,568	1,540	1,512					
336	Engines and turbines	39,017	38,739	38,461	38,183	37,905	37,627	37,349	37,071	36,793	36,515	36,237	35,959	35,681	35,403	35,125					
337	Farm machinery and equipment	2,819	2,734	2,649	2,564	2,479	2,394	2,309	2,224	2,139	2,054	1,969	1,884	1,799	1,714	1,629					
338	Construction, mining, and general industrial machinery	9,246	8,294	8,206	8,118	8,030	7,942	7,854	7,766	7,678	7,590	7,502	7,414	7,326	7,238	7,150					
339	General industrial machinery	3,715	3,457	3,426	3,395	3,364	3,333	3,302	3,271	3,240	3,209	3,178	3,147	3,116	3,085	3,054					

See footnotes at end of table.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted					Not seasonally adjusted														
		Monthly					Quarterly				Monthly										
		Feb. 1981 ^a	Jan. 1981 ^a	Dec. 1980	Nov. 1980	III 1980	II 1980	I 1980	IV 1979	III 1979	Feb. 1981 ^a	Jan. 1981 ^a	Dec. 1980	Nov. 1980	Oct. 1980	Jan. 1980	Feb. 1979	Nov. 1979			
INDUSTRY GROUPS AND INDUSTRIES--																					
Continued																					
Nonferrous metal industries^a																					
30	Electrical machinery.....	22,876	22,567	22,135	22,107	22,095	21,861	21,620	20,598	19,462	22,703	22,237	21,763	21,799	21,291	20,726	20,241	19,874			
301.2	Electrical transmission and distribution equipment and																				
303	Household appliances.....	4,003	3,923	3,904	3,867	3,955	3,982	3,868	3,770	3,637	3,997	3,918	3,888	3,838	3,912	3,813	3,758	3,721			
303.1	Household appliances.....	1,976	1,937	1,924	1,895	1,895	1,986	1,998	1,962	1,958	1,978	1,908	1,880	1,787	1,924	2,065	2,014	1,896			
306	Communication equipment.....	8,717	8,681	8,647	8,558	8,626	8,582	8,501	8,419	8,288	8,719	8,648	8,588	8,524	8,604	8,476	8,401	8,376			
307	Electronic components.....	3,521	3,459	3,404	3,343	3,383	3,326	3,240	3,099	2,987	3,511	3,428	3,437	3,359	3,216	3,110	3,068	2,976			
307.1	Transportation equipment.....	36,609	36,375	35,229	34,541	33,950	32,686	31,447	29,916	28,638	36,883	36,276	34,755	34,354	32,910	30,388	29,511	30,275			
31	Motor vehicles and parts.....	7,441	7,338	7,287	7,167	7,401	7,485	7,827	8,012	8,872	7,551	7,551	7,551	7,551	7,551	7,551	7,551	7,551			
311.6	Aircraft, missiles, and parts	24,567	24,421	23,502	22,844	22,136	20,389	19,049	17,417	15,349	24,731	24,171	23,066	22,710	22,710	19,462	17,102	16,893			
313.1	Shipbuilding																				
319.5	Tank vehicles.....	2,756	2,690	2,577	2,595	2,383	2,386	2,130	2,165	2,034	2,651	2,579	2,430	2,627	2,044	2,060	2,052	2,221			
38	Instrument and related products.....	8,589	8,498	8,438	8,448	8,290	8,393	8,237	7,765	7,471	8,596	8,485	8,248	8,294	8,130	8,021	7,380	7,500			
381.4	Scientific and engineering instruments.....	6,162	6,049	6,051	6,019	5,890	5,839	5,537	5,281	5,021	6,167	6,091	5,972	5,934	5,494	5,417	5,127	5,142			
386	Photographic goods.....	2,009	2,024	1,965	2,005	1,982	2,083	2,155	1,986	1,941	1,959	1,969	1,862	1,945	2,158	2,136	1,885	1,878			
25	All other durable goods																				
25.1	Industries.....	12,131	12,202	12,166	12,131	12,279	12,046	12,181	11,936	11,766	12,359	12,230	11,991	11,892	12,447	11,150	11,768	11,715			
Nondurable goods industries^a																					
20	Food and kindred products.....	21,187	21,050	21,362	21,756	21,337	20,272	20,431	20,397	19,780	21,346	21,830	21,999	22,875	20,675	21,011	21,024	21,096			
201	Wheat products.....	2,020	2,074	2,079	2,161	1,918	1,781	1,851	1,927	1,757	2,066	2,065	2,039	2,189	1,999	2,009	1,869	1,966			
208	Beverages.....	3,735	3,831	3,860	3,763	3,738	3,869	3,850	3,865	3,923	3,923	3,923	3,923	3,923	3,923	3,923	3,923	3,923			
209	Textile mill products.....	11,625	11,711	11,691	11,706	11,706	11,152	11,333	10,999	10,975	11,635	11,635	11,635	11,635	11,635	11,635	11,635	11,635			
209.6.9	All other foods.....	3,746	3,739	3,524	3,711	3,722	3,529	3,506	3,503	3,762	4,019	3,982	3,749	3,832	3,762	3,771	3,727	3,732			
21	Textile mill products.....	6,326	6,256	6,187	6,068	5,876	6,085	5,966	5,864	5,695	6,431	6,270	6,028	5,868	6,063	5,936	5,694	5,911			
22	Paper and allied products.....	7,820	7,732	7,478	7,473	7,475	7,598	7,296	6,795	6,422	7,707	7,618	7,399	7,394	7,073	6,859	6,712	6,758			
26	Chemical and allied products.....	2,798	2,775	2,656	2,697	2,555	2,650	2,465	2,465	2,465	2,701	2,701	2,701	2,701	2,701	2,701	2,701	2,701			
26.3	Alcohol, paper, and allied products.....	2,969	2,903	2,895	2,887	2,887	2,912	2,881	2,768	2,445	2,926	2,904	2,872	2,853	2,732	2,608	2,540	2,560			
284	All other paper containers.....	19,116	18,810	18,516	18,410	18,489	19,330	18,677	16,982	16,492	19,497	19,194	18,855	18,616	18,776	18,227	17,880	18,822			
28	Chemicals and allied products.....																				
28.1.6	Industrial chemicals, except pigments.....	6,167	6,016	5,900	5,994	5,887	6,453	6,055	5,246	4,975	6,263	6,143	6,065	6,065	6,065	5,956	5,956	5,109			
283.4	Plastics, synthetic.....	5,061	5,061	5,061	5,061	5,061	5,061	5,061	5,061	5,061	5,061	5,061	5,061	5,061	5,061	5,061	5,061	5,061			
29	Petroleum and coal products.....	9,157	8,355	8,336	8,333	8,894	8,793	8,062	8,581	8,343	8,965	8,737	8,702	8,552	7,733	7,596	6,816	6,686			
30	Rubber and plastics products.....																				
33	All other nondurable goods	4,661	4,498	4,474	4,493	4,470	4,817	4,954	4,777	4,940	4,774	4,579	4,505	4,766	4,976	4,717	4,864	4,698			
33.1	Industries.....	13,027	12,859	12,649	12,709	12,661	12,832	12,373	11,690	11,859	12,770	12,511	12,185	12,377	11,842	11,620	11,270	11,146			

^a Preliminary. ^b Revised.

Shipments and returns are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of:

Household durable goods industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware, household appliances, radio and TV, electronic components, and the nondurable portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the MA-175, Shipments to Federal Government Agencies (formerly Shipments of Defense-Related Industries), for the specified industries.

Table 6. PERCENT CHANGES AND REVISION RATES OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent changes							Revision rate ²		
	Month-to-month			Average monthly rates of change ¹				Year ago	Average monthly	
	Jan.- Feb. 1981	Dec. 1980- Jan. 1981	Nov.- Dec 1980	Fourth quarter 1980	Third quarter 1980	Second quarter 1980	Mar. 1980- through Feb. 1981	Feb. 1980	Feb. 1980 through Jan. 1981	Feb. 1976-1980
Shipments:										
All manufacturing industries.....	+0.2	+1.1	+1.0	+1.4	+2.6	-1.9	+0.6	0.1	0.3	0.1
Durable goods industries.....	+0.7	+0.3	+0.4	+1.5	+3.5	-3.1	+0.5	0.2	0.3	0.3
Nondurable goods industries.....	-1.1	+2.0	+1.7	+1.3	+1.7	-0.7	+0.6	0.5	0.5	0.4
Inventories:										
All manufacturing industries.....	+1.1	+1.6	+0.2	+0.1	-	+0.7	+0.4	0.1	0.2	0.1
New orders:										
All manufacturing industries.....	+0.5	-	+2.1	+1.5	+3.9	-3.0	+0.5	0.1	0.3	0.2
Durable goods industries.....	+0.1	-1.6	+2.0	+1.5	+5.9	-5.0	+0.4	0.1	0.4	0.4
Nondurable goods industries.....	-1.1	+1.6	+2.3	+1.4	+1.9	-1.1	+0.6	0.4	0.4	0.3
Unfilled orders:										
Durable goods industries.....	+0.2	+0.4	+0.9	+0.6	+0.5	-0.5	+0.2	0.1	0.1	0.1

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

- Represents zero.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Feb. 1981	Jan. 1981	Dec. 1980	Nov. 1980	Feb. 1981	Jan. 1981	Dec. 1980	Nov. 1980
All manufacturing industries, total.....	1.56	1.54	1.53	1.55	3.49	3.51	3.52	3.51
Durable goods industries, total.....	2.06	2.06	2.02	2.02	4.16	4.18	4.18	4.17
Stone, clay, and glass products.....	1.34	1.35	1.33	1.37	0.60	0.61	0.62	0.66
Primary metals.....	1.71	1.68	1.61	1.64	2.34	2.33	2.44	2.48
Fabricated metals.....	1.94	1.99	1.88	1.90	3.00	3.07	2.96	2.99
Machinery, except electrical.....	2.55	2.48	2.60	2.64	4.11	4.04	4.20	4.21
Electrical machinery.....	2.09	2.11	2.13	2.04	3.76	3.79	3.82	3.66
Transportation equipment.....	2.35	2.37	2.22	2.14	13.26	13.31	12.83	12.61
Instruments and related products.....	2.27	2.30	2.26	2.33	1.70	1.74	1.70	1.70
Nondurable goods industries, total.....	1.06	1.03	1.04	1.07	0.67	0.68	0.70	0.69
Food and kindred products.....	0.97	0.94	0.95	0.98	(X)	(X)	(X)	(X)
Tobacco products.....	3.05	3.13	2.79	3.22	(X)	(X)	(X)	(X)
Textile mill products.....	1.44	1.46	1.55	1.49	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.25	1.24	1.21	1.24	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.28	1.23	1.19	1.32	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.55	0.51	0.55	0.53	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.36	1.23	1.25	1.15	(X)	(X)	(X)	(X)

(NA) Not available. P Preliminary. R Revised. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.

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CURRENT INDUSTRIAL REPORTS

Manufacturers' Shipments, Inventories, and Orders

MARCH 1981

M3-1(81)-3

For Wire Transmission 2:30 P.M. E.D.T. Thursday, April 30, 1981

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in March increased \$2.1 billion or 1.3 percent to \$164.9 billion the Department of Commerce, Bureau of the Census reported today. Except for a slight decline in January, the value of new orders has been increasing since last June at a compounded rate of 1.9 percent per month.

New orders for durable goods for March increased \$2.4 billion or 2.9 percent to \$84.6 billion, revised upward from the 1.3 percent increase reported earlier. An increase in new orders for aircraft and parts of \$1.8 billion accounted for over 75 percent of the durable goods new order increase. Excluding the aircraft industry, new orders for durable goods were up 0.7 percent.

New orders for nondefense capital goods, increased 15.8 percent in March to \$23.8 billion, following a 16 percent decline in February. Although most of the components of the nondefense capital goods category reported order increases in March, over three-fourths of the \$3.2 billion increase was attributable to orders for aircraft and parts. New orders for defense capital goods were down \$0.6 billion or 10.6 percent to \$5.1 billion, following a 35 percent increase last month.

The value of shipments of manufactured goods in March was \$162.6 billion, up \$1.0 billion or 0.6 percent from February. A \$1.3 billion increase in durable goods shipments was partially offset by a \$0.4 billion decline in nondurable goods shipments. Within the durable goods category, the largest increases were reported by the aircraft industry, up \$0.9 billion or 20 percent to \$5.1 billion; and the motor vehicle industry up \$0.7 billion or 7.6 percent to \$10.1 billion. This is the second month in a row motor vehicle shipments have increased following declines in January, December, and November of 5.7 percent, 0.7 percent, and 2.6 percent, respectively.

A significant decline in shipments was reported by primary metals producers as steel shipments declined \$0.4 billion or

6.1 percent to \$5.8 billion, and nonferrous metal shipments dropped \$0.3 billion or 6.6 percent to \$4.8 billion.

Shipments by the nondurable goods industries declined for the second consecutive month. March shipments were down \$0.4 billion or 0.4 percent to \$80.2 billion, following a February decline of 0.4 percent. Major declines in the petroleum industry, down \$0.4 billion or 2.3 percent and the food products industry, down \$0.3 billion or 1.4 percent, more than offset increases in the chemicals and printing and publishing industries.

The unfilled orders level of manufacturers increased in March by \$2.3 billion or 0.8 percent to \$295.1 billion. In addition to a \$1.0 billion increase in the backlog of aircraft orders, the orders backlog for electrical machinery increased by \$0.5 billion or 1.2 percent to \$41.6 billion, and for fabricated metal products by \$0.3 billion or 1.2 percent to \$27.8 billion.

The book value of manufacturers' inventories in March was \$253.3 billion, an increase of \$2.1 billion or 0.8 percent from February. Almost one-half of this increase occurred in the petroleum industry where the value of inventories increased \$0.9 billion or 9.7 percent to \$10.1 billion. The inventory level of manufacturers in the nondefense capital goods category showed a decline for the month of 0.2 percent. Despite the large increase in the inventory value of the petroleum industry, the inventory to shipments ratio for all manufacturers in March remained the same as February at 1.56.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for April is scheduled for release on May 21, 1981, and the full report is scheduled for release on June 2, 1981.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES.
(Billions of dollars.)

SIC	Industry	Seasonally adjusted				Not seasonally adjusted												
		Monthly				Quarterly												
		Mar. 1967	Jan. 1968	Mar. 1968	May 1968	1967 1968	1968 1969	1969 1970	1970 1971	1971 1972	1972 1973	1973 1974	1974 1975	1975 1976	1976 1977	1977 1978	1978 1979	
TOTALS																		
102,583	All manufacturing industries.....	161,620	161,148	159,323	485,351	473,742	465,480	169,805	142,000	148,161	132,455	132,332	134,623	134,638	1,746,584	1,642,001	1,642,001	
165,564	Manufacturing industries excluding transportation.....	146,086	145,809	145,486	437,435	425,570	409,533	131,149	109,194	114,400	107,444	107,458	107,771	107,771	1,619,352	1,497,500	1,497,500	
85,596	Manufacturing industries with unfilled orders.....	86,227	83,056	81,862	253,136	246,411	241,534	90,017	84,454	73,426	70,659	69,171	80,987	73,071	441,448	893,421	893,421	
82,397	Durable goods industries.....	81,178	80,359	80,077	263,734	259,285	251,117	87,463	84,400	72,211	70,004	69,187	70,167	70,167	902,723	487,000	487,000	
69,315	Durable goods with unfilled orders.....	67,493	67,169	66,896	204,452	199,287	188,402	73,118	67,404	60,765	58,531	58,531	64,177	58,531	347,071	723,770	723,770	
80,186	Nondurable goods industries.....	80,502	80,889	79,296	261,617	254,411	249,413	82,424	81,055	71,400	70,659	69,442	69,442	69,442	895,816	804,224	804,224	
16,586	Nondurable goods with unfilled orders.....	16,262	15,896	15,746	48,744	47,124	46,110	16,899	16,448	14,773	13,134	12,026	13,197	14,013	186,377	170,241	170,241	
MARKET CATEGORIES																		
11,495	Home goods and apparel.....	11,048	11,087	11,271	35,665	34,006	32,799	12,424	11,400	10,000	9,914	11,519	9,918	9,766	131,379	125,723	125,723	
27,717	Consumer staples.....	26,484	26,367	26,018	86,708	84,911	83,855	28,315	26,812	26,597	26,597	26,012	26,194	26,194	321,248	298,416	298,416	
26,650	Equipment and defense products.....	23,113	23,462	23,771	71,207	69,440	68,000	26,407	23,459	23,461	23,459	23,389	23,763	23,763	263,897	236,754	236,754	
11,878	Automotive equipment.....	11,627	10,869	11,476	36,194	34,916	33,449	13,335	11,514	10,156	10,000	11,807	10,483	9,537	121,266	151,076	151,076	
13,636	Construction materials, supplies, and intermediate products.....	13,703	14,613	14,613	41,024	40,249	38,992	13,673	12,500	11,294	11,000	11,162	11,000	11,000	142,292	148,806	148,806	
72,767	Other materials, supplies, and intermediate products.....	72,481	71,111	71,553	218,553	210,940	204,480	75,971	72,531	68,423	67,976	71,651	69,457	61,118	801,557	730,782	730,782	
SUPPLEMENTARY SERIES²																		
5,367	Household durable goods index— products.....	5,376	5,009	5,009	15,800	15,279	14,503	5,616	5,085	4,889	4,889	5,132	5,079	4,893	58,453	55,938	55,938	
27,361	Capital goods industries.....	25,856	26,129	25,498	79,346	76,812	73,669	28,889	26,404	23,406	22,456	22,135	21,665	20,905	296,270	267,407	267,407	
23,034	Nondefense.....	22,463	21,732	21,486	67,434	65,472	61,294	24,502	22,138	20,134	22,456	22,825	21,853	18,636	255,381	232,315	232,315	
4,327	Defense.....	3,919	3,686	3,726	11,932	11,000	10,575	4,387	3,426	3,363	3,976	3,429	3,000	2,809	41,865	35,492	35,492	
INDUSTRY GROUPS AND INDUSTRIES																		
Durable goods industries:																		
4,467	Stone, clay, and glass products.....	4,536	4,567	4,567	13,617	13,235	12,781	4,584	4,225	3,794	3,968	3,858	3,726	3,576	45,503	48,185	48,185	
11,788	Primary metals.....	12,530	12,493	12,586	36,809	36,687	36,124	12,916	12,768	11,803	11,105	12,966	12,708	10,699	117,984	150,122	150,122	
5,838	Plant, furniture, steel mills.....	6,205	6,635	6,635	18,260	18,697	18,221	6,568	6,279	5,976	5,819	6,477	5,922	5,605	4,927	66,467	68,663	68,663
4,803	Nonferrous and other primary metals.....	5,162	4,863	5,120	15,120	14,712	13,135	5,153	5,168	4,694	4,518	5,062	5,062	4,750	65,426	58,001	58,001	
10,224	Finished metal products.....	10,057	9,818	10,233	30,139	30,078	28,692	10,528	9,691	8,846	9,531	9,653	9,570	8,867	111,406	109,463	109,463	
831	Textiles.....	870	851	895	2,552	2,505	2,360	805	823	697	708	783	718	657	9,806	10,046	10,046	
15,619	Machinery, except electrical.....	15,268	14,729	14,729	46,429	44,128	42,099	16,974	15,560	14,153	14,927	15,286	14,659	12,736	13,742	168,318	157,695	157,695
1,178	Engines and turbines.....	1,255	1,156	1,156	3,759	3,532	3,397	1,442	1,104	1,237	1,118	1,264	1,171	1,112	969	13,356	13,356	13,356
1,150	Farm machinery and equipment.....	1,053	1,196	1,145	3,429	3,439	3,281	1,400	1,455	1,131	936	1,196	1,039	984	12,967	13,258	13,258	
2,691	Material-handling equipment.....	2,766	2,766	2,766	8,221	7,697	7,658	2,825	2,836	2,607	2,478	2,990	2,948	2,617	2,502	31,534	31,813	31,813
941	Metallurgical machinery.....	918	948	2,850	2,903	2,584	1,068	1,068	1,018	836	1,007	1,011	977	767	806	10,789	9,497	9,497
1,353	General industrial machinery.....	1,427	1,427	3,702	3,702	3,702	3,584	1,413	1,413	1,000	1,000	1,000	1,000	1,000	1,000	15,463	15,463	15,463

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)											
		Seasonally adjusted				Not seasonally adjusted ¹							
		Monthly				Quarterly				Monthly			
		Mar. 1981 ²	Feb. 1981 ²	Jan. 1981	Dec. 1980	I 1981	IV 1980	III 1980	II 1980	Dec. 1980	Nov. 1980	Oct. 1980	Annual
200	INDUSTRY GROUPS AND INDUSTRIES--Continued												
36	Durable goods and Industries--Continued												
361,2	Electrical machinery.....	11,223	10,917	10,681	10,384	32,831	31,944	30,742	11,550	11,061	9,784	10,375	10,778
362	Electrical transmission and distribution equipment and apparatus.....	2,000	1,706	1,550	1,845	5,356	5,667	5,162	1,945	1,835	1,572	1,715	2,004
363	Household appliances.....	1,877	1,257	1,102	1,179	3,276	3,668	3,294	1,268	1,238	1,095	1,085	1,199
364	Radio and TV.....	1,999	863	713	713	2,589	2,314	2,212	852	868	681	755	648
365	Communication equipment.....	3,344	3,279	3,171	3,020	9,794	9,435	9,418	3,608	3,274	2,926	3,141	3,175
366	Electronic components.....	1,934	1,934	1,935	1,825	5,693	5,615	5,518	1,987	1,955	1,736	1,810	1,911
367	Telephone equipment.....	1,934	1,934	1,935	1,825	5,693	5,615	5,518	1,987	1,955	1,736	1,810	1,911
368	Transportation equipment.....	1,934	1,934	1,935	1,825	5,693	5,615	5,518	1,987	1,955	1,736	1,810	1,911
369	Motor vehicles and parts.....	10,057	9,347	9,061	9,807	28,465	29,222	26,253	11,319	9,673	8,583	9,011	16,388
372,0	Aircraft, missiles, and parts.....	5,148	4,295	4,489	4,508	13,932	13,962	12,942	5,431	4,428	3,798	4,791	4,286
3731	Shipbuilding and military aircraft.....	870	855	842	773	2,567	2,212	1,453	829	809	716	873	885
3732	Instruments and related products.....	3,850	3,809	3,691	3,735	11,330	10,984	10,463	3,935	3,676	3,124	3,714	3,719
3733	Scientific and engineering instruments.....	2,262	2,130	2,139	2,207	6,531	6,370	5,994	2,355	2,113	2,019	2,167	1,813
3734	Photographic goods.....	1,386	1,478	1,329	1,426	4,077	3,946	3,946	1,367	1,368	1,145	1,377	1,332
3735	All other durable goods industries.....	8,178	8,106	8,099	7,956	26,643	23,842	21,936	8,475	8,023	6,791	7,185	7,699
39	Non-durable goods industries:												
20	Food and kindred products.....	21,689	22,003	22,778	22,178	65,970	66,318	65,186	22,291	22,121	20,963	22,494	20,942
201	Beverages.....	2,372	2,586	2,776	2,495	7,534	7,632	8,180	2,417	2,279	2,128	2,265	2,448
202	Tobacco products.....	1,998	1,862	1,858	1,858	5,584	5,433	5,070	2,030	1,826	1,815	1,815	1,754
203-0,9	All other foods.....	8,912	9,175	9,163	9,552	27,400	27,991	27,331	9,438	9,080	8,726	9,018	9,048
21	Textile mill products.....	1,159	1,139	1,136	1,164	3,466	3,366	3,542	1,134	1,169	1,146	1,281	1,019
22	Chemical and allied products.....	6,595	6,193	6,191	6,203	18,924	18,261	17,781	6,568	6,136	5,802	6,203	5,968
26	Paper and allied products.....	3,002	3,024	2,969	2,969	8,921	8,632	8,358	3,106	3,036	2,734	2,734	2,838
261-3	Polymers, paper, etc.....	1,464	1,474	1,406	1,395	4,344	4,086	3,867	1,515	1,481	1,323	1,264	1,384
265	Plastics products.....	1,889	1,857	1,833	1,837	5,609	5,541	5,566	1,923	1,911	1,767	1,683	1,800
28	Chemical and allied products.....	13,357	13,020	13,386	13,389	45,463	43,871	39,699	16,438	15,352	14,148	14,301	14,766
281,6	Chemical products.....	5,574	5,348	5,227	5,256	16,149	15,050	13,200	6,064	5,578	4,936	4,931	5,370
281,4	Drugs, soap, and toiletries.....	3,771	3,905	4,018	4,286	11,714	11,818	11,802	3,997	3,987	3,815	4,020	3,849
281,5	Petroleum and coal products.....	16,365	16,744	16,904	15,361	50,073	45,989	42,619	16,063	17,069	16,844	15,748	14,578
30	Non-metallic mineral products, n.e.c.....	3,407	3,506	3,646	3,574	10,587	11,180	11,088	3,641	3,557	3,330	3,239	3,879
23	All other non-durable goods industries.....	11,440	11,302	11,037	10,936	33,779	33,110	32,144	11,415	11,382	9,807	1,085	10,495
31	Textile mill products.....	1,460	1,460	1,460	1,460	4,380	4,380	4,380	1,460	1,460	1,460	1,460	1,460

Preliminary.

Revised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

¹The supplementary series are groupings of the separate industry categories as follows:

Household durable goods industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radio and TV, optoelectronic goods, watches, and clocks; and miscellaneous personal goods.
 Consumer durables--Comparable to the previous producers' capital goods and the defense products (old series) categories.
 Non-durable goods industries--Textile mill products, leather goods, and miscellaneous products (old series) categories.
 Non-durable goods industries--Textile mill products, leather goods, and miscellaneous products (old series) categories.
 Defense products--Shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.
 The data are comparable to those published annually in the M-175, "Shipments to Federal Government Agencies" (formerly "Shipments of Defense-Ordered Industries"), for the specified industries.

TABLE 2. VALUE OF MANUFACTURES: NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	Seasonally adjusted												Not seasonally adjusted ¹												Annual		
		Monthly						Quarterly						Last 4 months						Last 4 months a year ago						1980	1979	
		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.		Jan.		Feb.				
		1981P	1981	1981P	1981	1981P	1981	1981P	1981	1981P	1981	1981P	1981	1981P	1981	1981P	1981	1981P	1981	1981P	1981	1981P	1981	1981P	1981	1981P		
TOTALS																												
32	All manufacturing industries.....	164,865	176,759	182,090	176,117	184,713	187,681	177,280	177,876	177,280	177,876	177,280	177,876	177,280	177,876	177,280	177,876	177,280	177,876	177,280	177,876	177,280	177,876	177,280	177,876	1,809,712	1,742,015	
33	Manufacturing industries excluding transportation.....	164,715	176,431	182,000	176,000	184,572	187,623	177,240	177,840	177,240	177,840	177,240	177,840	177,240	177,840	177,240	177,840	177,240	177,840	177,240	177,840	177,240	177,840	177,240	177,840	1,808,000	1,741,444	
333-339	Manufacturing industries with unfilled orders.....	89,186	85,366	86,007	84,816	297,559	231,732	231,732	231,732	231,732	231,732	231,732	231,732	231,732	231,732	231,732	231,732	231,732	231,732	231,732	231,732	231,732	231,732	231,732	231,732	932,035	933,035	
34	Durable goods industries.....	84,577	82,600	81,536	82,600	248,112	248,112	248,112	248,112	248,112	248,112	248,112	248,112	248,112	248,112	248,112	248,112	248,112	248,112	248,112	248,112	248,112	248,112	248,112	248,112	414,731	422,480	
35	Durable goods with unfilled orders.....	71,498	69,490	69,266	69,266	209,860	209,860	209,860	209,860	209,860	209,860	209,860	209,860	209,860	209,860	209,860	209,860	209,860	209,860	209,860	209,860	209,860	209,860	209,860	209,860	714,533	714,533	
36	Nondurable goods industries.....	89,288	80,590	86,776	79,703	241,592	241,592	241,592	241,592	241,592	241,592	241,592	241,592	241,592	241,592	241,592	241,592	241,592	241,592	241,592	241,592	241,592	241,592	241,592	241,592	805,435	805,435	
37	Nondurable goods with unfilled orders.....	63,600	60,280	60,463	62,400	182,873	182,873	182,873	182,873	182,873	182,873	182,873	182,873	182,873	182,873	182,873	182,873	182,873	182,873	182,873	182,873	182,873	182,873	182,873	182,873	711,439	711,439	
MARKET CATEGORIES																												
	Home goods and apparel.....	11,041	11,386	11,811	11,244	36,268	36,268	36,268	36,268	36,268	36,268	36,268	36,268	36,268	36,268	36,268	36,268	36,268	36,268	36,268	36,268	36,268	36,268	36,268	36,268	176,005	176,005	
	Consumer staples.....	27,750	28,437	28,598	29,006	84,245	84,245	84,245	84,245	84,245	84,245	84,245	84,245	84,245	84,245	84,245	84,245	84,245	84,245	84,245	84,245	84,245	84,245	84,245	84,245	324,742	324,742	
	Food and defense products.....	26,087	23,419	25,868	25,073	75,751	75,751	75,751	75,751	75,751	75,751	75,751	75,751	75,751	75,751	75,751	75,751	75,751	75,751	75,751	75,751	75,751	75,751	75,751	275,134	275,134		
	Automotive equipment.....	11,943	11,613	11,026	11,846	36,572	36,572	36,572	36,572	36,572	36,572	36,572	36,572	36,572	36,572	36,572	36,572	36,572	36,572	36,572	36,572	36,572	36,572	36,572	36,572	137,609	137,609	
	Construction materials, supplies, and intermediate products.....	13,941	13,600	13,571	13,666	41,132	41,132	41,132	41,132	41,132	41,132	41,132	41,132	41,132	41,132	41,132	41,132	41,132	41,132	41,132	41,132	41,132	41,132	41,132	41,132	144,383	144,383	
	Other materials, supplies, and intermediate products.....	73,103	72,873	71,286	71,777	217,264	217,264	217,264	217,264	217,264	217,264	217,264	217,264	217,264	217,264	217,264	217,264	217,264	217,264	217,264	217,264	217,264	217,264	217,264	217,264	804,676	804,676	
SUPPLEMENTARY SERIES ²																												
	Household durable goods industries.....	5,463	5,753	5,322	5,005	16,538	16,538	16,538	16,538	16,538	16,538	16,538	16,538	16,538	16,538	16,538	16,538	16,538	16,538	16,538	16,538	16,538	16,538	16,538	16,538	59,939	59,939	
	Capital goods industries.....	28,897	26,747	28,706	27,098	83,890	83,890	83,890	83,890	83,890	83,890	83,890	83,890	83,890	83,890	83,890	83,890	83,890	83,890	83,890	83,890	83,890	83,890	83,890	83,890	310,713	299,216	
	Nondefense.....	23,838	20,980	24,513	21,473	68,941	68,941	68,941	68,941	68,941	68,941	68,941	68,941	68,941	68,941	68,941	68,941	68,941	68,941	68,941	68,941	68,941	68,941	68,941	68,941	255,038	259,721	
	Defense.....	5,059	5,657	4,193	5,625	14,949	14,949	14,949	14,949	14,949	14,949	14,949	14,949	14,949	14,949	14,949	14,949	14,949	14,949	14,949	14,949	14,949	14,949	14,949	14,949	55,025	39,495	
INDUSTRY GROUPS AND INDUSTRIES																												
	Durable goods industries	4,437	4,641	4,671	4,496	13,569	13,569	13,569	13,569	13,569	13,569	13,569	13,569	13,569	13,569	13,569	13,569	13,569	13,569	13,569	13,569	13,569	13,569	13,569	13,569	49,186	48,165	
	Stone, clay, and glass.....	12,048	12,417	12,479	12,899	35,477	35,477	35,477	35,477	35,477	35,477	35,477	35,477	35,477	35,477	35,477	35,477	35,477	35,477	35,477	35,477	35,477	35,477	35,477	35,477	142,882	142,882	
	Primary metals.....	6,150	6,170	5,408	6,184	17,500	17,500	17,500	17,500	17,500	17,500	17,500	17,500	17,500	17,500	17,500	17,500	17,500	17,500	17,500	17,500	17,500	17,500	17,500	17,500	69,411	69,411	
	Nonferrous and other primary metal products.....	4,810	5,181	4,674	5,008	14,665	15,436	15,436	15,436	15,436	15,436	15,436	15,436	15,436	15,436	15,436	15,436	15,436	15,436	15,436	15,436	15,436	15,436	15,436	15,436	61,144	59,802	
	Fabricated metal products.....	10,542	10,424	9,705	10,534	30,371	30,371	30,371	30,371	30,371	30,371	30,371	30,371	30,371	30,371	30,371	30,371	30,371	30,371	30,371	30,371	30,371	30,371	30,371	30,371	110,702	111,422	
	Machinery, except electrical.....	15,558	15,781	16,345	15,100	47,384	47,384	47,384	47,384	47,384	47,384	47,384	47,384	47,384	47,384	47,384	47,384	47,384	47,384	47,384	47,384	47,384	47,384	47,384	47,384	177,648	177,648	
	Electrical, electronic, and communication equipment.....	11,923	11,891	11,710	11,936	44,429	44,429	44,429	44,429	44,429	44,429	44,429	44,429	44,429	44,429	44,429	44,429	44,429	44,429	44,429	44,429	44,429	44,429	44,429	44,429	131,174	131,174	
	Construction, mining, and other heavy equipment.....	2,969	3,021	3,171	3,016	9,191	9,191	9,191	9,191	9,191	9,191	9,191	9,191	9,191	9,191	9,191	9,191	9,191	9,191	9,191	9,191	9,191	9,191	9,191	9,191	31,887	32,301	
	Metalworking machinery.....	763	823	1,000	993	2,586	2,586	2,586	2,586	2,586	2,586	2,586	2,586	2,586	2,586	2,586	2,586	2,586	2,586	2,586	2,586	2,586	2,586	2,586	2,586	11,486	11,486	
	General industrial machinery.....	1,371	1,137	1,361	1,173	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	3,605	13,451	13,451	

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(Millions of dollars)

SIC	Industry	Seasonally adjusted					Not seasonally adjusted ¹										Annual
		Monthly					Monthly										
		Mar. 1981 ²	Feb. 1981 ²	Jan. 1981	Dec. 1980	I 1981	IV 1980	III 1980	Mar. 1981 ²	Feb. 1981 ²	Jan. 1981	Dec. 1980	Mar. 1980	Feb. 1980	Jan. 1980	Dec. 1979	
INDUSTRY GROUPS AND INDUSTRIES-- Continued																	
Durable goods industries-- Continued																	
36	Electrical machinery.....	11,731	11,542	11,420	10,365	36,693	33,127	30,444	11,923	11,749	10,831	10,364	11,401	11,680	10,062	9,837	115,785
361,2	Electrical transmission and distribution equipment and supplies.....	2,085	1,810	1,840	1,905	5,755	5,306	4,969	2,045	1,959	1,887	1,764	2,047	2,068	1,647	1,513	21,330
363	Radio and television appliances.....	1,195	1,281	1,559	1,158	3,735	3,601	3,439	1,255	1,287	1,116	1,082	1,185	1,176	1,050	1,057	12,718
365	Refrigerators.....	863	1,037	863	785	2,763	2,189	2,234	800	1,047	988	815	955	865	500	587	6,408
366	Communication equipment.....	3,773	3,495	3,766	3,348	11,034	10,780	9,712	3,867	3,421	3,750	3,432	3,732	3,784	3,455	3,260	37,445
367	Electronic components.....	1,942	1,494	1,695	1,451	4,631	4,183	3,720	1,425	1,720	1,435	1,435	1,734	1,745	1,456	1,466	21,465
37	Transportation equipment.....	18,150	17,828	16,486	17,169	59,142	48,133	48,034	19,262	15,799	15,713	16,153	17,161	16,132	13,491	16,030	189,142
372,4	Aircraft, missiles, and space vehicles.....	6,178	4,361	5,467	4,997	16,006	12,907	14,748	5,957	4,028	5,327	5,336	5,315	4,130	3,367	6,286	62,887
3731	Shipbuilding and military tank vehicles.....	940	1,091	856	1,089	2,887	3,061	4,457	981	1,089	999	1,513	1,504	737	764	989	11,415
3795	Instruments and related products.....	3,800	3,837	3,763	3,909	11,400	11,090	10,401	3,941	3,702	3,343	3,944	3,828	4,130	3,251	3,359	42,380
38	All other durable goods industries.....	8,311	8,264	8,294	8,002	29,146	23,868	21,669	8,681	8,455	6,928	7,110	7,954	7,766	6,892	6,649	86,437
39																	41,176

Preliminary.

²Revised.

¹Shipments and new orders for the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

²The data are comparable to those published annually in the NA-175, "Shipments and Inventories of Manufactured Industries," for the specified industries.

³Household durable goods industries--Household furniture, kitchen articles, and pottery, cutlery, handtools, and hardware; household appliances, radio and TV, optical goods, watches, and toys; and miscellaneous personal goods.

⁴Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

⁵Nondefense products--Aircraft, missiles, and space vehicles; shipbuilding and military tank vehicles; and instruments and related products.

⁶Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and armaments.

⁷The data are comparable to those published annually in the NA-175, "Shipments and Inventories of Manufactured Industries," for the specified industries.

Table 3. VALUE OF MANUFACTURES' UNFINISHED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

Sl.	Industry	Seasonally adjusted										Not seasonally adjusted ¹									
		Exports										Imports									
		Quarterly					Last 4 months					Quarterly					Last 4 months				
		Mar. 1963	Mar. 1964	Mar. 1965	Mar. 1966	Mar. 1967	Mar. 1968	Mar. 1969	Mar. 1970	Mar. 1971	Mar. 1972	Mar. 1967	Mar. 1968	Mar. 1969	Mar. 1970	Mar. 1971	Mar. 1972				
TOTALS																					
1	All countries, trading industries.....	292,411	391,677	276,437	282,008	286,462	286,462	286,462	286,462	286,462	286,462	286,462	286,462	286,462	286,462	286,462	286,462				
2	Manufacturing industries, excluding transportation.....	180,000	176,892	178,000	178,000	178,000	178,000	178,000	178,000	178,000	178,000	178,000	178,000	178,000	178,000	178,000	178,000				
3	Durable goods industries, excluding transportation.....	286,130	381,653	276,437	282,008	286,462	286,462	286,462	286,462	286,462	286,462	286,462	286,462	286,462	286,462	286,462	286,462				
4	Non-durable goods industries, excluding transportation.....	19,000	14,240	14,240	14,240	14,240	14,240	14,240	14,240	14,240	14,240	14,240	14,240	14,240	14,240	14,240	14,240				
MARKET CATEGORIES																					
5	Household, apparel and consumer goods, excluding transportation.....	1,511	1,511	1,511	1,511	1,511	1,511	1,511	1,511	1,511	1,511	1,511	1,511	1,511	1,511	1,511	1,511				
6	Transportation industries, excluding transportation.....	169,131	167,864	169,131	169,131	169,131	169,131	169,131	169,131	169,131	169,131	169,131	169,131	169,131	169,131	169,131	169,131				
7	Construction materials, supplies, and intermediate products, excluding transportation.....	29,116	14,614	14,614	14,614	14,614	14,614	14,614	14,614	14,614	14,614	14,614	14,614	14,614	14,614	14,614	14,614				
8	Intermediate products, excluding transportation.....	101,000	100,706	100,706	100,706	100,706	100,706	100,706	100,706	100,706	100,706	100,706	100,706	100,706	100,706	100,706	100,706				
SUPPLEMENTARY SERIES ²																					
9	Household durable goods, industries, excluding transportation.....	1,615	1,615	1,615	1,615	1,615	1,615	1,615	1,615	1,615	1,615	1,615	1,615	1,615	1,615	1,615	1,615				
10	Capital goods industries, excluding transportation.....	149,121	149,121	149,121	149,121	149,121	149,121	149,121	149,121	149,121	149,121	149,121	149,121	149,121	149,121	149,121	149,121				
11	Non-durable goods, industries, excluding transportation.....	16,524	13,087	13,087	13,087	13,087	13,087	13,087	13,087	13,087	13,087	13,087	13,087	13,087	13,087	13,087	13,087				
12	Defense.....	6,576	6,576	6,576	6,576	6,576	6,576	6,576	6,576	6,576	6,576	6,576	6,576	6,576	6,576	6,576	6,576				
INDUSTRY GROUPS AND INDUSTRIES																					
13	Durable goods industries, excluding transportation.....	2,569	2,569	2,569	2,569	2,569	2,569	2,569	2,569	2,569	2,569	2,569	2,569	2,569	2,569	2,569	2,569				
14	Stone, clay, and glass.....	18,364	18,364	18,364	18,364	18,364	18,364	18,364	18,364	18,364	18,364	18,364	18,364	18,364	18,364	18,364	18,364				
15	Textile mill, apparel, and leather.....	9,086	9,086	9,086	9,086	9,086	9,086	9,086	9,086	9,086	9,086	9,086	9,086	9,086	9,086	9,086	9,086				
16	Food, kindred, and allied products.....	27,829	27,829	27,829	27,829	27,829	27,829	27,829	27,829	27,829	27,829	27,829	27,829	27,829	27,829	27,829	27,829				
17	Chemical and allied products.....	56,071	56,071	56,071	56,071	56,071	56,071	56,071	56,071	56,071	56,071	56,071	56,071	56,071	56,071	56,071	56,071				
18	Nonferrous and other primary metal products.....	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850				
19	Fabricated metal products.....	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850				
20	Transportation industries, excluding transportation.....	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850				
21	Engines and turbines.....	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850	16,850				
22	Construction, mining, and material-handling equipment.....	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759				
23	Metallurgical machinery.....	6,322	6,322	6,322	6,322	6,322	6,322	6,322	6,322	6,322	6,322	6,322	6,322	6,322	6,322	6,322	6,322				
24	General industrial machinery.....	6,322	6,322	6,322	6,322	6,322	6,322	6,322	6,322	6,322	6,322	6,322	6,322	6,322	6,322	6,322	6,322				

See footnotes at end of table.

Table 4. VALUE OF MANUFACTURES, INDUSTRIES AND SERVICES, GOODS, WHOLE RETAILERS, AND TRADING FIRMS

Millions of dollars

IND	INDUSTRY	SEASONALLY ADJUSTED										NOT SEASONALLY ADJUSTED									
		MONTHLY					QUARTERLY					LAST 4 MONTHS					YEAR TO DATE				
		Mar. 1981	Feb. 1981	Jan. 1981	Dec. 1980	Nov. 1980	111 1980	111 1980	111 1980	111 1980	111 1980	Mar. 1981	Feb. 1981	Jan. 1981	Dec. 1980	Nov. 1980	1980 1980	1980 1980	1980 1980	1980 1980	
		MANUFACTURES																			
POINTS																					
32	All manufacturing industries.....	253,289	253,211	268,408	245,493	245,453	245,453	245,453	245,453	245,453	245,453	245,453	245,453	245,453	245,453	245,453	245,453	245,453	245,453	245,453	
33	Food, kindred products, and kindred products.....	216,466	216,466	216,466	216,466	216,466	216,466	216,466	216,466	216,466	216,466	216,466	216,466	216,466	216,466	216,466	216,466	216,466	216,466	216,466	
34	Textile mill and apparel.....	17,439	17,439	17,439	17,439	17,439	17,439	17,439	17,439	17,439	17,439	17,439	17,439	17,439	17,439	17,439	17,439	17,439	17,439	17,439	
35	Chemical and allied products.....	166,718	166,718	166,718	166,718	166,718	166,718	166,718	166,718	166,718	166,718	166,718	166,718	166,718	166,718	166,718	166,718	166,718	166,718	166,718	
36	Nonferrous metal and metal products.....	1,613,46	1,613,46	1,613,46	1,613,46	1,613,46	1,613,46	1,613,46	1,613,46	1,613,46	1,613,46	1,613,46	1,613,46	1,613,46	1,613,46	1,613,46	1,613,46	1,613,46	1,613,46	1,613,46	
37	Nonferrous metal and metal products.....	36,371	36,371	36,371	36,371	36,371	36,371	36,371	36,371	36,371	36,371	36,371	36,371	36,371	36,371	36,371	36,371	36,371	36,371	36,371	
38	Nonferrous metal and metal products.....	1,4,181	1,4,181	1,4,181	1,4,181	1,4,181	1,4,181	1,4,181	1,4,181	1,4,181	1,4,181	1,4,181	1,4,181	1,4,181	1,4,181	1,4,181	1,4,181	1,4,181	1,4,181	1,4,181	
INDUSTRIES																					
39	Household durable goods (includes furniture, glass, and glass products).....	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	
40	Capital goods industries.....	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	
41	Primary metals.....	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	
42	Nonferrous metal and metal products.....	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	
43	Nonferrous metal and metal products.....	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	
44	Nonferrous metal and metal products.....	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	
45	Nonferrous metal and metal products.....	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	
46	Nonferrous metal and metal products.....	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	
47	Nonferrous metal and metal products.....	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	
INDUSTRIES																					
48	Household durable goods (includes furniture, glass, and glass products).....	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	4,260	
49	Capital goods industries.....	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	67,796	
50	Primary metals.....	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	11,483	
51	Nonferrous metal and metal products.....	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	8,667	
52	Nonferrous metal and metal products.....	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	19,282	
53	Nonferrous metal and metal products.....	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	1,326	
54	Nonferrous metal and metal products.....	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	2,489	
55	Nonferrous metal and metal products.....	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	8,354	
56	Nonferrous metal and metal products.....	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	1,462	

See footnotes at end of table.

[illegible]

Table 6. PERCENT CHANGES AND REVISION RATES OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent changes							Revisions ²		
	Month-to-month			Average monthly rates of change ¹				Year ago Mar. 1980	Average monthly	
	Feb.- Mar. 1981	Jan. 1981- Feb. 1981	Dec. 1980- Jan. 1981	First quarter 1981	Fourth quarter 1980	Third quarter 1980	Apr. 1980- through Mar. 1981		Mar. 1980 through Feb. 1981	Mar. 1976-1980
Shipments:										
All manufacturing industries.....	+0.6	+0.3	+1.1	+0.7	+1.4	+2.6	+0.7	0.3	0.3	0.2
Durable goods industries.....	+1.6	+1.0	+0.3	+1.0	+1.5	+3.5	+0.7	0.4	0.3	0.2
Nondurable good industries.....	-0.4	-0.4	+2.0	+0.4	+1.3	+1.7	+0.7	0.2	0.5	0.3
Inventories:										
All manufacturing industries.....	+0.8	+1.1	+1.6	+1.2	+0.1	-	+0.5	0.0	0.1	0.1
New orders:										
All manufacturing industries.....	+1.3	+0.4	-	+0.6	+1.5	+3.9	+0.7	0.0	0.4	0.4
Durable goods industries.....	+2.9	+1.1	-1.6	+0.8	+1.5	+5.9	+0.7	0.0	0.5	0.6
Nondurable goods industries.....	-0.3	-0.3	+1.6	+0.3	+1.4	+1.9	+1.0	0.1	0.5	0.2
Unfilled orders:										
Durable goods industries.....	+0.8	+0.4	+0.4	+0.5	+0.6	+0.5	+0.3	0.1	0.1	0.3

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Mar. 1981	Feb. 1981	Jan. 1981	Dec. 1980	Mar. 1981	Feb. 1981	Jan. 1981	Dec. 1980
All manufacturing industries, total.....	1.56	1.55	1.54	1.53	3.44	3.48	3.51	3.52
Durable goods industries, total.....	2.02	2.05	2.06	2.02	4.10	4.15	4.18	4.18
Stone, clay, and glass products.....	1.43	1.36	1.35	1.33	0.62	0.61	0.61	0.62
Primary metals.....	1.83	1.72	1.68	1.61	2.49	2.33	2.33	2.44
Fabricated metals.....	1.89	1.93	1.99	1.88	2.96	2.98	3.07	2.96
Machinery, except electrical.....	2.49	2.55	2.48	2.60	4.01	4.10	4.04	4.20
Electrical machinery.....	2.03	2.09	2.11	2.13	3.70	3.76	3.79	3.82
Transportation equipment.....	2.16	2.36	2.37	2.22	11.70	13.32	13.31	12.83
Instruments and related products.....	2.24	2.25	2.30	2.26	1.66	1.69	1.74	1.70
Nondurable goods industries, total.....	1.08	1.05	1.03	1.04	0.66	0.67	0.68	0.70
Food and kindred products.....	0.98	0.96	0.94	0.95	(X)	(X)	(X)	(X)
Tobacco products.....	3.15	2.88	3.13	2.79	(X)	(X)	(X)	(X)
Textile mill products.....	1.44	1.45	1.46	1.55	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.25	1.25	1.24	1.21	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.27	1.28	1.23	1.19	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.62	0.55	0.51	0.55	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.39	1.33	1.23	1.25	(X)	(X)	(X)	(X)

(NA) Not available. P Preliminary. ¹Revised. (X) Not applicable.

²Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, “at book values.” Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

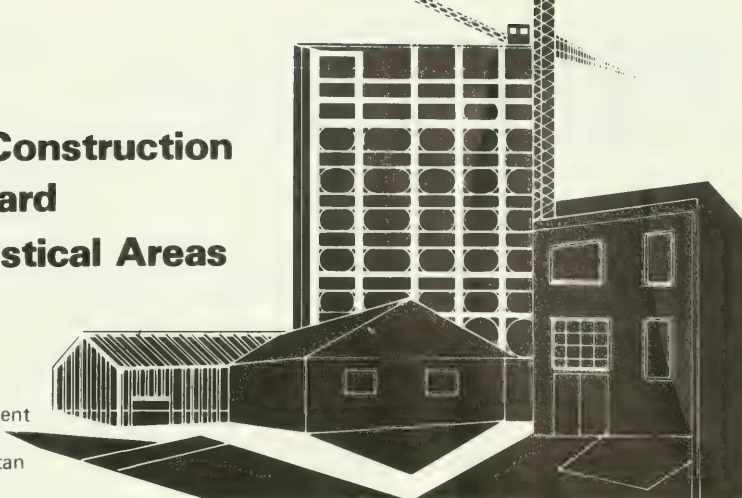
New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.

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Manufacturers' Shipments, Inventories, and Orders

APRIL 1981

U.S. Department of Commerce
BUREAU OF THE CENSUS

M3-1(81)-4
For Wire Transmission 2:30 P.M. E.D.T. Tuesday, June 2, 1981

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in April declined \$1.4 billion or 0.8 percent from March to \$163.3 billion the Department of Commerce, Bureau of the Census reported today. Except for a very slight decrease in January, this is the first decline in orders since the 0.2 percent decrease reported last June. Most of the decline in the April orders occurred in the nondurable goods area which was down \$1.1 billion or 1.3 percent to \$79.4 billion. For most nondurable goods industries, new orders equals shipments for the month.

New orders for durable goods in April were down \$0.3 billion or 0.4 percent to \$83.9 billion. The largest decline came from the fabricated metals products area, where orders dropped \$0.5 billion or 4.7 percent to \$10.0 billion. New orders for transportation equipment were down \$0.2 billion or 1.2 percent to \$17.5 billion, as all categories except motor vehicles and parts reported decreases. New orders for primary metals and machinery showed little change from last month.

New orders for the nondefense capital goods industries in April declined \$1.0 billion or 4.3 percent to \$22.8 billion. Most of the decline was attributable to the commercial aircraft and parts industry. Without the aircraft industry, nondefense capital goods orders were virtually unchanged from March. New orders for defense capital goods of \$4.9 billion also showed little change from last month as an increase in orders for aircraft offset declines in the other defense categories.

Shipments of manufactured goods in April were valued at \$162.3 billion, down \$0.2 billion or 0.1 percent from March. A billion dollar decline in nondurable goods shipments more than offset the \$0.8 billion increase in deliveries of durable goods. The decrease in nondurable goods shipments was due to large declines reported by the chemical and petroleum products industries. Shipments of chemicals dropped \$0.7 billion or 4.9 percent to \$14.7 billion, while petroleum products shipments declined \$0.5 billion or 3.0 percent to \$15.9 billion.

In the durable goods area, most industries reported small increases in shipments. The only large gains were in steel shipments, up \$0.4 billion or 7.0 percent from March and motor vehicle and parts shipments, up \$0.8 billion or 7.7 percent to \$10.7 billion. This is the third consecutive monthly increase in automotive shipments.

The value of manufacturers' unfilled orders rose \$1.1 billion or 0.4 percent in April to \$296.1 billion. Although most industries showed small increases, the largest percentage gain occurred in the steel industry where the orders backlog increased \$0.4 billion or 2.0 percent to \$18.7 billion. Within the capital goods categories, the orders backlog of nondefense capital goods producers was valued at \$134.6 billion, unchanged from March. Unfilled orders for defense capital goods increased \$0.9 billion or 1.4 percent to \$64.2 billion.

The book value of manufacturers' inventories in April was \$254.8 billion, up \$1.4 billion or 0.5 percent from March. This is the smallest 1-month increase reported this year, as the value of inventories rose 1.6 percent in January, 1.1 percent in February, and 0.9 percent in March. The December 1980 increase was 0.2 percent. The value for inventories of electrical machinery producers in April increased \$0.5 billion or 2.2 percent to \$23.3 billion, while those of nonelectrical machinery producers increased \$0.4 billion or 0.9 percent to \$39.3 billion. The inventory to shipments ratio for April was 1.57, up from 1.56 in March.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for May is scheduled for release on June 19, 1981, and the full report is scheduled for release on June 30, 1981.

NOTICE

The next benchmark report in this series (M3-1.10) is tentatively scheduled for release in mid-June. This report will include revisions to the shipments and inventory series to reflect adjustments to the 1977 Census and 1978 Annual Survey of Manufactures and a recomputation of the factors used to seasonally adjust the individual series.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURES: SHIPMENTS FOR INDUSTRIES GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	Billions of dollars											
		Seasonally adjusted						Not seasonally adjusted					
		Quarterly			Yearly			Quarterly			Yearly		
		Apr. 1981*	Jul. 1981	I 1981	IV 1980	1981	1980	Apr. 1981	Jul. 1981	I 1981	IV 1980	1981	1980
TOTALS													
MANUFACTURING INDUSTRIES													
311	All kinds of textile mill products	162,267	161,470	427,241	427,662	1,655,639	1,655,639	1,655,639	1,655,639	1,655,639	1,655,639	1,655,639	1,655,639
312	Woolen textile mill products	166,801	165,496	427,442	427,635	1,655,436	1,655,436	1,655,436	1,655,436	1,655,436	1,655,436	1,655,436	1,655,436
313	Woolen textile mill products, excepting transportation	85,000	84,065	207,084	206,411	806,278	806,278	806,278	806,278	806,278	806,278	806,278	806,278
314	Woolen textile mill products, excepting transportation, with unfinished orders	82,835	81,731	205,994	205,217	795,966	795,966	795,966	795,966	795,966	795,966	795,966	795,966
315	Durable goods industries	68,706	67,606	167,189	166,480	706,242	706,242	706,242	706,242	706,242	706,242	706,242	706,242
316	Durable goods with unfinished orders	79,445	78,449	197,911	197,272	806,278	806,278	806,278	806,278	806,278	806,278	806,278	806,278
317	Non-durable goods industries	16,696	16,460	42,258	42,114	166,363	166,363	166,363	166,363	166,363	166,363	166,363	166,363
318	Non-durable goods with unfinished orders	11,006	10,868	28,139	28,000	110,974	110,974	110,974	110,974	110,974	110,974	110,974	110,974
319	Consumer durables	28,185	28,147	70,981	70,981	281,857	281,857	281,857	281,857	281,857	281,857	281,857	281,857
320	Capital goods industries	26,000	25,445	64,400	64,400	260,000	260,000	260,000	260,000	260,000	260,000	260,000	260,000
321	Automotive equipment	1,692	1,667	4,163	4,163	16,920	16,920	16,920	16,920	16,920	16,920	16,920	16,920
322	Construction materials, supplies, and other materials	1,663	1,666	4,163	4,163	16,663	16,663	16,663	16,663	16,663	16,663	16,663	16,663
323	Intermediate products	71,905	72,281	185,293	185,293	719,050	719,050	719,050	719,050	719,050	719,050	719,050	719,050
WHOLESALE TRADE													
51	Household durable goods, excepting textiles	5,665	5,678	14,139	14,139	56,650	56,650	56,650	56,650	56,650	56,650	56,650	56,650
52	Capital goods industries	27,232	27,232	70,981	70,981	272,320	272,320	272,320	272,320	272,320	272,320	272,320	272,320
53	Defense	22,765	22,765	60,981	60,981	227,650	227,650	227,650	227,650	227,650	227,650	227,650	227,650
54	Non-durable goods industries	4,002	4,002	10,005	10,005	40,020	40,020	40,020	40,020	40,020	40,020	40,020	40,020
55	Textiles	1,663	1,666	4,163	4,163	16,663	16,663	16,663	16,663	16,663	16,663	16,663	16,663
56	Other materials, supplies, and intermediate products	71,905	72,281	185,293	185,293	719,050	719,050	719,050	719,050	719,050	719,050	719,050	719,050
SUPPLEMENTARY SERIES													
57	Household durable goods, excepting textiles	5,665	5,678	14,139	14,139	56,650	56,650	56,650	56,650	56,650	56,650	56,650	56,650
58	Capital goods industries	27,232	27,232	70,981	70,981	272,320	272,320	272,320	272,320	272,320	272,320	272,320	272,320
59	Defense	22,765	22,765	60,981	60,981	227,650	227,650	227,650	227,650	227,650	227,650	227,650	227,650
60	Non-durable goods industries	4,002	4,002	10,005	10,005	40,020	40,020	40,020	40,020	40,020	40,020	40,020	40,020
61	Textiles	1,663	1,666	4,163	4,163	16,663	16,663	16,663	16,663	16,663	16,663	16,663	16,663
62	Other materials, supplies, and intermediate products	71,905	72,281	185,293	185,293	719,050	719,050	719,050	719,050	719,050	719,050	719,050	719,050
INDUSTRY GROUPS AND INDUSTRIES													
Durable goods industries													
12	Stone, clay, and glass	4,585	4,585	11,655	11,655	45,850	45,850	45,850	45,850	45,850	45,850	45,850	45,850
13	Glass containers	1,663	1,666	4,163	4,163	16,663	16,663	16,663	16,663	16,663	16,663	16,663	16,663
14	Primary metals	11,936	12,443	30,782	30,782	119,360	119,360	119,360	119,360	119,360	119,360	119,360	119,360
15	Blat furnaces, steel mills, nonferrous and other primary metals	6,247	6,117	15,281	15,281	62,470	62,470	62,470	62,470	62,470	62,470	62,470	62,470
16	Primary metal cans, barrels, and drums	4,590	4,704	11,712	11,712	45,900	45,900	45,900	45,900	45,900	45,900	45,900	45,900
17	Machinery, except electrical	818	870	2,309	2,309	8,180	8,180	8,180	8,180	8,180	8,180	8,180	8,180
18	Engines and turbines	1,558	1,558	4,010	4,010	15,580	15,580	15,580	15,580	15,580	15,580	15,580	15,580
19	Transportation equipment	1,258	1,258	3,247	3,247	12,580	12,580	12,580	12,580	12,580	12,580	12,580	12,580
20	Construction equipment	1,258	1,258	3,247	3,247	12,580	12,580	12,580	12,580	12,580	12,580	12,580	12,580
21	Metalworking machinery	996	946	2,485	2,485	9,960	9,960	9,960	9,960	9,960	9,960	9,960	9,960
22	General industrial machinery	1,276	1,313	3,382	3,382	12,760	12,760	12,760	12,760	12,760	12,760	12,760	12,760

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY CATEGORIES, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Billions of dollars)											
		Seasonally adjusted						Not seasonally adjusted ¹					
		Monthly		Quarterly		Last 4 months		Monthly		Last 4 months a year ago		Annual	
		Mar. ¹ 1981 ²	Feb. 1981	I 1981	IV 1980	III 1980	Apr. 1981 ³	Jan. 1981	Apr. 1980	Mar. 1980	Feb. 1980	Jan. 1980	1980
36	INDUSTRY GROUPS AND INDUSTRIES--												
361, 2	Continued												
363	Durable goods and industries--												
365	Continued												
366	Electrical machinery.....	11,176	10,917	10,681	32,157	31,944	30,742	11,182	11,603	11,061	10,778	9,204	43,610
367	Electrical transmission and												
368	power equipment.....	1,767	1,706	1,650	5,212	5,447	5,142	1,797	1,947	1,825	2,004	1,609	7,141
369	Household appliances.....	1,254	1,183	1,302	3,742	3,648	3,294	1,247	1,254	1,238	1,199	1,164	4,435
37	Household appliances.....	924	898	863	2,588	2,314	2,212	814	851	868	847	711	2,426
371	Radio and TV.....	1,441	1,361	1,279	3,911	4,335	4,418	1,572	1,627	1,574	1,648	1,550	5,314
372	Communication equipment.....	1,341	1,279	1,211	3,729	3,911	4,335	1,572	1,627	1,574	1,648	1,550	5,314
373	Electronic components.....	1,424	1,353	1,264	3,855	4,037	4,187	1,496	1,553	1,486	1,553	1,486	5,314
374	Electronic equipment.....	1,737	1,637	1,533	4,713	4,897	5,081	1,742	1,809	1,742	1,809	1,742	6,207
375	Transportation equipment.....	10,652	9,891	9,347	28,299	29,222	26,243	11,291	11,135	9,675	9,938	8,832	40,469
376	Motor vehicles and parts.....	4,907	5,134	4,499	13,418	13,962	12,942	4,938	5,417	4,428	4,286	3,999	15,816
377	Aircraft, missiles, and												
378	spacecraft.....	892	909	855	2,406	2,459	2,459	916	880	736	820	769	3,327
379	Shipbuilding and military												
38	equipment.....	3,667	3,856	3,809	11,336	10,984	10,463	3,619	3,940	3,676	3,424	3,217	14,559
381-4	Products.....	2,118	2,262	2,130	6,331	6,370	5,994	2,113	2,255	2,113	2,183	1,993	8,182
385	Scientific and engineering.....	1,334	1,386	1,478	4,336	4,077	3,946	1,278	1,356	1,368	1,415	1,304	5,157
386	Photographic goods.....												
387	Photographic equipment.....												
388	Photographic supplies.....												
389	Photographic accessories.....												
39	All other durable goods	8,374	8,072	8,099	24,537	23,842	21,936	8,530	8,269	8,023	7,709	6,832	31,113
391	Industries.....												
392	Nonferrous metals.....	21,091	21,905	22,003	66,186	66,318	65,186	21,826	22,417	22,271	20,842	20,391	87,277
393	Food and kindred products.....	5,305	5,205	5,179	15,499	15,439	15,499	5,365	5,365	5,365	5,365	5,365	18,901
394	Beverages.....	2,711	2,478	2,586	7,640	7,632	8,190	2,760	2,525	2,279	2,448	2,248	9,129
395	Tobacco.....	1,761	1,881	1,724	5,467	5,433	5,070	1,805	1,911	1,826	1,754	1,745	6,604
203-6, 9	Fats and oils.....	8,994	9,071	9,175	27,351	27,351	27,351	8,787	9,008	9,680	9,048	8,664	36,801
204	All other foods.....	1,249	1,197	1,259	3,652	3,666	3,342	1,220	1,172	1,169	1,175	1,019	4,007
205	Tobacco products.....	1,196	1,259	1,352	3,652	3,666	3,342	1,220	1,172	1,169	1,175	1,019	4,007
206	Textile mill products.....	3,364	3,301	3,253	9,911	9,911	9,911	3,364	3,301	3,253	3,253	3,253	11,066
207	Textile mill products.....	3,364	3,301	3,253	9,911	9,911	9,911	3,364	3,301	3,253	3,253	3,253	11,066
208	Textile mill products.....	3,364	3,301	3,253	9,911	9,911	9,911	3,364	3,301	3,253	3,253	3,253	11,066
209	Textile mill products.....	3,364	3,301	3,253	9,911	9,911	9,911	3,364	3,301	3,253	3,253	3,253	11,066
21-3	Pulp, paper, etc.....	3,019	3,047	3,024	8,963	8,963	8,358	3,097	3,149	3,036	2,734	2,628	11,062
265	Paperboard containers.....	1,476	1,458	1,474	4,406	4,338	4,086	1,493	1,509	1,481	1,361	1,181	5,806
266	All other paper products.....	1,851	1,884	1,827	5,604	5,543	5,566	1,851	1,917	1,931	1,767	1,820	7,466
284	Chemicals and allied products.....	14,682	15,431	15,020	43,971	43,971	39,699	15,621	16,559	15,352	14,766	13,837	61,558
285	Chemicals and allied products.....												
286	Chemicals and allied products.....												
287	Chemicals and allied products.....												
288	Chemicals and allied products.....												
289	Chemicals and allied products.....												
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305	Chemicals and allied products.....												
306	Chemicals and allied products.....												
307	Chemicals and allied products.....												
308	Chemicals and allied products.....												
309	Chemicals and allied products.....												
31	Chemicals and allied products.....												

Preliminary.

Revised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

²The separate industry groupings of the separate industry categories as follows: Shipments and new orders--household appliances, radio and TV, electronic goods, watches, and clocks; and miscellaneous personal goods.

³Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

⁴Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

⁵Defense products--Shipbuilding and repairing, railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

⁶The data are comparable to those published annually in the NA-175, Shipments to Federal Government Genies' formerly Shipments of Defense-Oriented Industries for the specified industries.

Table 2 VALUE OF MANUFACTURES' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Billions of dollars)

SIC	Industry	Seasonally adjusted					Quarterly					Yearly					Annual
		Monthly					Last 4 months					Last 4 months 3 year ago					
		Seasonally adjusted					Last 4 months					Last 4 months 3 year ago					
		Apr. 1981 ^a	Mar. 1981	Feb. 1981	Jan. 1981	I 1981	IV 1980	III 1980	Apr. 1981 ^a	Mar. 1981	Feb. 1981	Jan. 1981	Apr. 1980	Mar. 1980	Feb. 1980	Jan. 1980	
TOTALS																	
13-3, 328	All manufacturing industries.....	166,697	182,759	187,380	289,536	278,989	269,536	188,708	172,200	270,900	182,001	146,480	239,140	256,962	125,943	655,963	688,520
165,827	Manufacturing industries excluding transportation.....	146,978	146,978	146,978	438,835	431,853	431,853	149,148	133,428	154,207	136,388	128,973	142,004	140,810	129,982	589,102	541,766
86,311	Manufacturing industries with unfilled orders.....	86,311	86,311	86,311	251,695	251,695	251,695	86,311	86,311	86,311	86,311	86,311	86,311	86,311	86,311	346,366	326,530
84,317	Durable goods industries.....	84,317	84,317	84,317	266,396	266,396	266,396	84,317	84,317	84,317	84,317	84,317	84,317	84,317	84,317	313,576	313,576
69,818	Durable goods with unfilled orders.....	69,818	69,818	69,818	204,426	204,426	204,426	69,818	69,818	69,818	69,818	69,818	69,818	69,818	69,818	281,480	263,276
79,411	Nondurable goods industries.....	80,484	80,550	80,755	241,788	233,592	224,129	80,422	82,321	81,810	78,395	72,038	76,103	74,712	69,711	370,403	394,986
16,473	Durable goods with unfilled orders.....	16,473	16,473	16,473	48,119	47,124	46,348	16,474	16,748	16,683	16,486	13,134	13,877	13,493	14,826	65,155	61,230
62,918	Nonferrous metal industries.....	63,996	64,280	64,993	193,289	187,363	177,781	61,706	66,755	61,117	61,273	57,954	60,626	59,219	55,748	253,748	231,734
MARKET CATEGORIES																	
12,024	Home goods and apparel.....	12,204	12,386	11,821	36,411	34,143	32,675	11,976	12,661	12,334	11,157	10,466	11,630	11,676	9,937	47,081	43,707
28,213	Consumer staples.....	28,162	28,437	28,558	85,117	82,880	83,864	28,448	28,518	26,773	26,273	24,486	26,691	26,020	24,233	112,120	101,930
26,487	Equipment and defense products.....	26,487	26,487	26,487	75,753	74,753	74,694	26,681	27,182	25,985	25,985	24,391	26,982	26,286	25,236	92,550	92,550
11,792	Automotive equipment.....	11,603	11,026	11,026	34,421	33,379	31,903	11,412	13,569	11,738	10,398	8,634	11,698	12,101	10,366	48,777	43,597
13,429	Construction materials, supplies, and intermediate products.....	13,865	13,660	13,551	41,096	40,376	38,450	16,000	13,864	12,712	11,397	11,492	12,251	12,374	10,836	57,013	47,413
72,722	Other materials, supplies, and intermediate products.....	72,587	72,875	71,286	216,748	211,498	197,326	74,606	76,576	75,811	69,938	67,886	72,453	72,398	68,339	289,762	279,323
SUPPLEMENTARY SERIES²																	
5,659	Household durable goods indus- tries.....	5,661	5,753	5,322	16,736	16,919	16,367	5,852	5,967	5,719	5,433	5,264	5,226	5,270	4,523	21,671	19,684
28,732	Capital goods industries.....	28,732	28,732	28,732	83,579	83,130	81,829	28,732	28,732	28,732	28,732	28,732	28,732	28,732	28,732	106,749	106,749
22,143	Nonferrous metal industries.....	22,781	20,590	25,313	68,883	66,130	61,189	22,975	25,991	21,347	22,761	22,406	23,574	22,413	22,277	92,614	92,614
4,960	Defense.....	4,835	5,657	4,193	14,683	14,186	15,339	4,404	4,125	5,231	4,470	4,680	4,517	3,340	3,546	18,637	16,073
INDUSTRY GROUPS AND INDUSTRIES																	
4,555	Durable goods industries.....	4,412	4,641	4,471	13,525	13,261	12,131	4,702	4,261	4,361	3,806	3,412	4,134	3,912	3,912	17,344	15,864
12,129	Stone, clay, and glass.....	12,070	12,412	10,977	35,475	39,673	34,777	12,855	13,342	13,314	11,247	10,299	12,869	14,193	13,669	51,460	51,460
6,610	Primary metals.....	6,170	6,170	5,208	17,548	21,038	16,620	6,513	7,422	7,099	5,669	4,731	6,174	6,812	6,180	26,763	26,763
333-5, 9	Nonferrous and steel mills.....	4,785	4,785	4,676	14,650	15,538	15,426	4,788	5,327	5,261	4,551	4,951	5,495	5,156	6,227	20,127	22,827
34	Food products.....	10,015	10,507	10,124	30,336	30,519	26,046	10,112	10,768	9,891	8,929	9,131	9,977	9,486	8,330	39,000	37,424
35	Textile mill products.....	15,931	15,636	16,545	47,462	44,728	41,923	16,120	17,601	15,933	15,245	12,661	15,308	14,945	14,143	64,868	56,667
351	Machinery, except electrical.....	1,401	1,218	1,170	4,115	3,589	3,298	1,355	1,449	1,245	1,444	992	1,238	1,090	1,169	4,489	4,489
353	Electrical, electronic, and communications equipment.....	3,268	3,012	3,017	9,256	8,620	7,765	3,350	3,705	3,158	3,059	2,646	3,036	2,666	2,666	12,969	11,567
354	Construction, mining, and material-handling equipment.....	3,489	3,123	3,080	2,657	2,568	2,256	879	879	831	748	1,231	1,231	1,231	982	4,087	4,087
356	Transportation equipment.....	1,319	1,340	1,381	3,860	3,633	3,227	1,369	1,484	1,381	1,269	703	1,331	1,195	1,286	2,286	4,444

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURES' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND DIFFERENTIARY SERIES—Continued
(Billions of dollars)

SIC	Industry	Seasonally adjusted					Quarterly				Not seasonally adjusted ¹												Annual					
		Monthly					Quarterly				Monthly												Monthly		1981	1982		
		1981					1981				1981												1980					
		Apr.	May	Jun.	Jul.	Aug.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.		Nov.	Dec.
1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981		1981	
36	Electrical machinery.....	11,495	11,624	11,542	11,420	36,586	33,221	39,044	11,679	11,945	11,769	10,831	10,848	11,441	11,488	10,962	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406		11,406	11,406
361,2	Electrical transmission and distribution equipment and industrial apparatus.....	1,643	1,938	1,810	1,890	5,608	5,506	4,369	1,781	2,096	1,985	1,882	1,882	2,096	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882		1,882	
363	Household appliances.....	1,718	1,864	1,837	1,864	5,283	5,283	4,369	1,781	2,096	1,985	1,882	1,882	2,096	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882	1,882		
365	Refrigerators.....	838	864	1,037	864	2,763	2,189	2,334	707	801	787	787	787	801	787	787	787	787	787	787	787	787	787	787	787	787		
366	Communication equipment.....	3,732	3,832	3,845	3,766	11,093	10,780	9,742	3,779	3,927	3,821	3,597	3,610	3,610	3,537	3,537	3,537	3,537	3,537	3,537	3,537	3,537	3,537	3,537	3,537	3,537		
367	Electronic components.....	2,428	1,866	1,944	1,995	5,252	5,252	4,369	2,202	2,978	2,804	1,720	1,825	1,825	1,720	1,720	1,720	1,720	1,720	1,720	1,720	1,720	1,720	1,720	1,720	1,720		
369	Transportation equipment.....	17,501	17,719	17,647	16,264	49,711	46,133	47,934	17,558	18,791	15,799	15,733	15,733	15,733	15,733	15,733	15,733	15,733	15,733	15,733	15,733	15,733	15,733	15,733	15,733	15,733		
372,9	Aircraft, missiles, and space vehicles.....	5,764	5,910	4,393	4,667	15,738	12,907	4,262	6,478	5,884	4,808	4,808	4,808	4,808	4,808	4,808	4,808	4,808	4,808	4,808	4,808	4,808	4,808	4,808	4,808	4,808		
3731	Ships, boats, and other watercraft.....	703	725	703	848	2,879	3,044	2,879	703	946	1,189	995	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167	1,167		
3732	Tank vehicles.....	3,620	3,646	3,646	3,646	11,556	11,556	11,556	3,646	3,646	3,646	3,646	3,646	3,646	3,646	3,646	3,646	3,646	3,646	3,646	3,646	3,646	3,646	3,646	3,646	3,646		
38	Transportation equipment and related products.....	8,669	8,399	9,764	8,291	25,266	23,668	21,669	8,943	8,170	8,255	9,028	7,398	7,398	7,398	7,398	7,398	7,398	7,398	7,398	7,398	7,398	7,398	7,398	7,398	7,398		
39	All other durable goods industries.....	11,495	11,624	11,542	11,420	36,586	33,221	39,044	11,679	11,945	11,769	10,831	10,848	11,441	11,488	10,962	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406		

Preliminary.

Revised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are groupings of the separate industry categories as follows:

Household durable goods industries—Household furniture, kitchen appliances and pottery; cutlery, handtools, and hardware; household appliances, radio and television sets, and other electronic equipment.

Capital goods industries—Comparable to the previous producers' capital goods and the defense producers' capital goods and the defense producers' capital goods.

Non-defense products—Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and television sets, and other electronic equipment), and the non-defense portions of shipbuilding and repairing and national equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products—Based on defense orders filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable in their position annually to the data on shipments in Federal Government Reports, Monthly Shipments, Defense Orders, and Shipbuilding.

Table 3. VALUE OF MANUFACTURES* UNFILED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	(Millions of dollars)																
		Seasonally adjusted						Not seasonally adjusted ¹										
		Monthly			Quarterly			Monthly			Last 4 months a year ago							
		Apr. 1981P	Mar. 1981P	Feb. 1981	Jan. 1981	IV 1980	III 1980	II 1980	I 1980	IV 1979	Apr. 1981P	Mar. 1981P	Feb. 1981	Jan. 1980				
TOTALS																		
All manufacturing industries.....																		
Manufacturing industries excluding transportation.....																		
Durable goods industries.....																		
Nondurable goods industries.....																		
MARKET CATEGORIES																		
Home goods and apparel and consumer staples.....																		
Equipment and defense products, construction materials, supplies, and intermediate products.....																		
Other materials, supplies, and intermediate products.....																		
SUPPLEMENTARY SERIES ²																		
Household durable goods industries.....																		
Capital goods industries.....																		
Defense.....																		
INDUSTRY GROUPS AND INDUSTRIES																		
Durable goods industries:																		
32	Stone, clay, and glass.....	2,393	2,447	2,540	2,514	2,578	2,553	2,702	3,066	2,917	2,504	2,468	2,468	2,499	3,019	3,116	2,981	2,935
33	Primary metals.....	29,601	29,406	29,105	29,185	30,738	27,711	25,139	29,528	29,962	30,871	29,946	29,020	29,129	30,963	31,449	30,199	30,199
331-333-6,9	Blat furnaces, steel mills, nonferrous and other primary metal products.....	18,745	18,382	18,053	18,100	19,097	16,756	14,358	17,349	18,007	19,683	19,320	18,649	17,828	18,234	18,537	17,646	17,646
34	Fabricated metal products.....	8,980	9,078	9,077	9,038	9,539	8,852	8,591	9,397	9,334	9,375	9,595	9,313	9,120	9,582	9,933	10,100	9,795
35	Machinery, except electrical.....	28,656	28,732	28,130	28,092	27,116	26,519	26,027	28,782	28,383	29,011	28,344	27,764	28,559	29,068	30,065	29,755	29,755
351	Engines and turbines.....	16,989	16,847	16,796	16,633	16,479	16,413	16,412	16,767	16,630	16,908	16,872	16,823	16,882	16,735	16,789	16,795	16,795
353	Construction, mining, and material-handling equipment.....	10,333	9,816	9,491	9,486	8,780	8,780	7,968	8,877	8,423	10,530	9,865	9,481	9,139	8,612	8,922	8,875	8,875
354	General industrial machinery.....	6,616	6,856	6,950	6,952	7,257	7,257	7,586	7,798	7,143	6,623	6,663	6,754	6,893	7,038	7,178	7,228	7,228
356	General industrial machinery.....	6,103	6,260	6,423	6,412	6,053	6,172	6,319	7,183	7,098	6,354	6,262	6,262	6,354	6,423	6,423	6,423	6,423

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(Millions of dollars)

SIC	Industry group	Seasonally adjusted												Not seasonally adjusted ¹			
		Monthly				Quarterly				Monthly							
		Apr. 1961P	May 1961*	Feb. 1961	Jan. 1961	TV 1960	III 1960	II 1960	I 1960	IV 1959	Mar. 1961P	Feb. 1961	Jan. 1961	Apr. 1960	Mar. 1960	Feb. 1960	Mar. 1960
36	INDUSTRY GROUP AND INDUSTRIES--Continued																
361,2	Durable goods industries--Continued	41,861	41,538	41,074	40,452	39,710	38,534	38,630	37,944	35,631	41,846	41,450	40,423	38,602	37,863	37,179	36,119
361,2	Electrical machinery.....	8,156	8,279	8,197	8,094	7,883	7,825	8,000	7,657	7,331	8,276	8,291	8,213	8,080	8,118	7,669	7,462
363	Electric transmission and distribution apparatus.....	442	437	424	390	433	480	333	310	364	466	452	438	390	307	321	334
365	Industrial apparatus.....	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318
365	Radio and TV.....	21,383	21,489	20,523	20,349	20,313	19,328	18,416	17,352	16,421	21,339	21,466	20,496	19,178	17,360	16,453	15,740
366	Communication equipment.....	11,058	11,058	10,915	10,934	10,934	10,934	10,934	10,934	10,934	10,934	10,934	10,934	10,934	10,934	10,934	10,934
37	Transportation equipment.....	114,427	114,699	113,921	113,637	112,805	113,058	109,611	105,642	102,506	14,699	115,391	115,131	115,267	108,740	106,182	105,553
372,6	Aircraft, missiles, and parts.....	91,855	91,397	90,622	90,556	89,578	90,632	88,827	81,804	77,959	91,510	91,972	91,703	92,104	85,806	82,299	81,271
3731	Shipbuilding and military tank vehicles.....	14,112	14,300	14,282	14,046	14,032	13,203	11,205	11,237	11,397	14,299	14,386	14,005	11,646	11,299	10,975	11,040
38	Transportation products.....	6,381	6,429	6,440	6,412	6,341	6,232	6,295	6,459	5,985	6,410	6,415	6,369	6,343	6,399	6,441	6,333
25	All other durable goods industries.....	3,811	3,557	3,211	3,033	2,841	2,817	3,084	3,514	3,117	3,838	3,415	3,014	2,781	3,564	3,389	3,164

Preliminary. Revised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. The calendar-month variations are of the end of the period and are not adjusted for trading-day and calendar-month variations. Regroupings of the separate industry categories are as follows:
The household durable goods industries--Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.
Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), the defense products (old series) categories, and defense products (old series) categories.
Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance; communication equipment, aircraft and aircraft parts, and shipbuilding.
The data are comparable to those published annually in the MA-175, 'Shipments to Federal Government Agencies' (formerly 'Shipments of Defense-Oriented Industries'), for the specified industries.

Beginning in 1976, the fiscal year for the Federal Government probably affected the awarding of contracts and other financial arrangements. Although the impact of this change is not known, the use of previously established seasonal factors would have substantially distorted the current data since these seasonal factors reflect historical government purchasing patterns. Therefore, beginning in July 1977, new composite seasonal factors were developed by combining the existing end of fiscal year information with data for the previous calendar year (i.e., one quarter prior to the current year). The new seasonal factors were calculated using the same method as the old seasonal factors. The new seasonal factors could be used for the same purposes as the old seasonal factors. The old seasonal factors could be used for the same purposes as the old seasonal factors. The old seasonal factors could be used for the same purposes as the old seasonal factors.

Since such data are not compiled separately, this method of calculating the seasonal factors will be used until a sufficient amount of data are available to assess the impact of the change in the fiscal year on the seasonal pattern of the defense industries.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

Preliminary.
Revised.

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent changes							Revisions ²		
	Month-to-month			Average monthly rates of change ¹				Year ago Apr. 1980	Average monthly	
	Mar.- Apr. 1981	Feb.- Mar. 1981	Jan.- Feb. 1981	First quarter 1981	Fourth quarter 1980	Third quarter 1980	May 1980 through Apr. 1981		Apr. 1980 through Mar. 1981	Apr. 1976-1980
Shipments:										
All manufacturing industries.....	-0.1	+0.5	+0.3	+0.7	+1.4	+2.6	+1.0	0.3	0.3	0.1
Durable goods industries.....	+1.0	+1.2	+1.0	+0.8	+1.5	+3.5	+1.2	0.1	0.3	1.2
Nondurable goods industries.....	-1.2	-0.1	-0.4	+0.5	+1.3	+1.7	+0.9	0.6	0.5	0.3
Inventories:										
All manufacturing industries.....	+0.5	+0.9	+1.1	+1.2	+0.1	-	+0.4	-	0.2	0.2
New orders:										
All manufacturing industries.....	-0.8	+1.2	+0.4	+0.5	+1.5	+3.9	+1.1	0.3	0.4	0.2
Durable goods industries.....	-0.4	+2.4	+1.1	+0.6	+1.5	+5.9	+1.2	0.0	0.6	0.2
Nondurable goods industries.....	-1.3	-0.1	-0.3	+0.4	+1.4	+1.9	+0.9	0.6	0.5	0.2
Unfilled orders:										
Durable goods industries.....	+0.4	+0.8	+0.4	0.5	+0.6	+0.5	+0.3	0.3	0.1	-

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

- Represents zero.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Apr. 1981	Mar. 1981	Feb. 1981	Jan. 1981	Apr. 1981	Mar. 1981	Feb. 1981	Jan. 1981
All manufacturing industries.....	1.57	1.56	1.55	1.54	3.47	3.45	3.48	3.51
Durable goods industries.....	2.03	2.03	2.05	2.06	4.15	4.12	4.15	4.18
Stone, clay, and glass products.....	1.37	1.41	1.36	1.35	0.58	0.60	0.61	0.61
Primary metals.....	1.81	1.84	1.72	1.68	2.48	2.50	2.33	2.33
Fabricated metals.....	1.89	1.89	1.93	1.99	2.95	2.96	2.98	3.07
Machinery, except electrical.....	2.53	2.51	2.55	2.48	4.11	4.05	4.10	4.04
Electrical machinery.....	2.09	2.05	2.09	2.11	3.75	3.72	3.76	3.79
Transportation equipment.....	2.12	2.18	2.36	2.37	12.1	11.79	13.32	13.31
Instruments and related products.....	2.39	2.23	2.25	2.30	1.74	1.67	1.69	1.74
Nondurable goods industries.....	1.09	1.08	1.05	1.03	0.66	0.66	0.67	0.68
Food and kindred products.....	0.95	0.97	0.96	0.94	(X)	(X)	(X)	(X)
Tobacco products.....	2.92	3.10	2.88	3.13	(X)	(X)	(X)	(X)
Textile mill products.....	1.44	1.45	1.45	1.46	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.25	1.25	1.25	1.24	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.35	1.26	1.28	1.23	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.64	0.62	0.55	0.51	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.32	1.35	1.33	1.23	(X)	(X)	(X)	(X)

(NA) Not available.

^PPreliminary.^RRevised.

(X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.

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Manufacturers' Shipments, Inventories, and Orders

MAY 1981

M3-1(81)-5

For Wire Transmission 2:30 P.M. E.D.T. Tuesday, June 30, 1981

U.S. Department of Commerce
BUREAU OF THE CENSUS

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in May increased \$1.0 billion or 0.6 percent from April to \$164.9 billion the Department of Commerce, Bureau of the Census reported today. An increase in new orders for nondurable goods of \$1.1 billion or 1.4 percent to \$80.8 billion was partially offset by a decline in orders for durable goods of \$0.2 billion or 0.2 percent to \$84.1 billion. In the nondurable goods industries where generally new orders equals shipments for the month, the petroleum industry accounted for over three-fourths of the \$1.1 billion May increase.

In the durable goods industries the pattern of new orders in May was mixed. New orders for steel fell \$1.3 billion or 18.9 percent to \$5.4 billion, following a 7.8 percent increase in April. The largest increase in May orders came from the aircraft industry where an increase of \$1.2 billion or 21 percent to \$6.6 billion was reported.

New orders for machinery in May increased \$0.3 billion or 1.2 percent to \$27.5 billion, as an increase in the electrical category of \$0.6 billion or 5.3 percent to \$12.1 billion was partially offset by a decline in the nonelectrical category of \$0.3 billion or 1.7 percent to \$15.4 billion. Since January when machinery orders increased 9.0 percent, new orders have been relatively flat, with a decline in February of 4.1 percent, an increase in March of 1.6 percent, and a decline in April of 0.3 percent.

New orders for nondefense capital goods in May were up \$0.3 billion or 1.3 percent to \$23.7 billion. Increases in commercial aircraft and electrical machinery orders offset declines in the other nondefense categories. New orders for defense capital goods increased \$1.1 billion or 23 percent to \$5.9 billion.

Shipments of manufactured goods in May increased \$1.1 billion or 0.7 percent from April to \$163.4 billion. The largest increases were in the electrical machinery category, up \$0.5 billion or 4.9 percent to \$11.7 billion, and instruments and related products, up \$0.2 billion or 5.2 percent to \$3.9 billion. Most of the other industries showed little change or had small declines from April.

Shipments by the nondurable goods industries in May increased \$0.8 billion or 1.0 percent to \$80.4 billion. The petroleum industry dominated the picture with an increase of \$0.9 billion or 5.6 percent to \$16.7 billion. This increase followed declines in April of 3.5 percent, in March of 2.1 percent, and in February of 1.3 percent. The value of petroleum shipments in January was \$17.0 billion. Excluding the petroleum industry, shipments of nondurable goods in May showed little change from April.

The backlog of manufacturers' orders in May was \$298.2 billion, up \$1.5 billion or 0.5 percent from April. The backlog of orders for defense capital goods increased by \$1.8 billion or 2.8 percent to \$65.9 billion. Since October 1, the beginning of the government fiscal year, the backlog of orders for defense equipment has increased \$8.1 billion or 14 percent. The September 30 level was \$57.8 billion. Without the defense capital goods industries the backlog for manufacturers' orders showed little change from April.

The book value of manufacturers' inventories in May was \$256.4 billion, up \$1.4 billion or 0.6 percent from April. Although the value of inventories has increased an average of less than 1.0 percent a month since December, the relatively small increases in shipments have caused the inventory to shipments ratio to edge up from the December rate of 1.53 to 1.57 in May. Finished goods and work-in-process inventories have each increased an average of 1.1 percent per month since December while raw material inventories have increased 0.7 percent per month.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for June is scheduled for release on July 22, 1981, and the full report is scheduled for release on July 31, 1981, 1981.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. Bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)									
		Seasonally adjusted					Not seasonally adjusted ¹				
		Monthly					Monthly				
		May 1981P	Apr. 1981P	Mar. 1981	Feb. 1981	I 1980	Quarterly	III 1980	Last 4 months 1981P	Last 4 months 1981	Year to date
INDUSTRY GROUPS AND INDUSTRIES--Continued											
		May 1981P	Apr. 1981P	Mar. 1981	Feb. 1981	I 1980	Quarterly	III 1980	Last 4 months 1981P	Last 4 months 1981	Year to date
36	Durable goods and industries--Continued	11,711	11,163	11,159	10,917	32,757	31,944	30,742	11,448	11,172	10,917
361,2	Electrical machinery.....	1,842	1,792	1,856	1,706	5,212	5,457	5,142	1,868	1,822	1,883
363	Electrical transmission and distribution equipment and materials.....	1,198	1,148	1,183	1,257	3,648	3,394	3,294	1,254	1,238	1,194
365	Household appliances.....	896	921	898	863	2,748	2,744	2,712	744	744	711
366	Radios and TV.....	3,412	3,361	3,479	3,411	9,435	9,418	9,318	3,412	3,397	3,406
367	Communications equipment.....	17,536	17,422	17,534	17,479	48,387	48,387	48,387	17,536	17,534	17,534
368	Electronic components.....	10,781	10,676	10,691	10,537	28,249	29,222	29,243	11,542	11,317	11,304
37	Transportation equipment and parts.....	4,954	4,894	4,934	4,895	13,418	13,962	12,942	4,996	4,987	4,938
371	Aircraft, missiles, and parts.....	936	909	855	825	2,806	2,232	2,459	911	896	885
372	Shipbuilding and military aircraft.....	3,864	3,977	3,956	3,809	11,356	10,384	10,463	3,844	3,825	3,841
373	Transportation equipment and parts.....	2,197	2,129	2,262	2,130	6,331	6,710	5,994	2,426	2,413	2,453
38	Scientific and engineering instruments.....	1,436	1,339	1,386	1,478	4,256	4,071	3,464	1,474	1,452	1,434
381-4	Photographic goods.....	8,384	8,401	8,072	8,306	24,537	23,842	21,936	8,532	8,532	8,532
39	All other durable goods and industries.....	21,770	22,231	21,905	22,003	66,186	66,318	65,186	21,685	22,158	20,341
40	Nondurable goods industries.....	5,353	5,289	5,315	5,454	16,243	16,429	15,499	5,356	5,331	5,399
201	Food and kindred products.....	2,640	2,678	2,678	2,586	7,940	7,652	7,738	2,726	2,726	2,726
202	Beverages.....	1,751	1,831	1,881	1,724	5,467	5,433	5,070	1,732	1,877	1,731
207	Fats and oils.....	8,888	9,086	9,193	9,159	27,951	27,951	27,951	8,888	8,888	8,888
208-9	All other foods.....	1,245	1,245	1,245	1,245	3,760	3,760	3,760	1,245	1,245	1,245
21	Tobacco products.....	4,537	4,537	4,537	4,537	13,612	13,612	13,612	4,537	4,537	4,537
22	Textile mill products.....	6,120	6,273	6,489	6,325	18,965	18,261	17,791	6,272	6,367	6,272
26	Paper and allied products.....	2,955	2,963	3,047	3,024	8,963	8,632	8,358	3,000	3,000	3,000
261-3	Pulp, paper, etc.....	1,447	1,469	1,458	1,474	4,338	4,086	3,897	1,468	1,468	1,468
264	Paperboard containers.....	1,508	1,504	1,589	1,550	4,625	4,546	4,461	1,532	1,532	1,532
28	All other paper products.....	14,899	14,741	15,451	15,250	45,337	45,337	45,337	14,899	14,899	14,899
281-6	Chemical and allied products, except pigments.....	5,210	5,295	5,545	5,348	16,170	15,050	13,200	5,434	5,681	5,681
283,4	Drugs, soap, and toiletries.....	3,687	3,556	3,837	3,905	11,780	11,438	11,802	3,425	3,522	3,425
29	Petroleum and coal products.....	16,695	15,815	16,397	16,784	50,105	45,989	42,639	16,391	15,499	16,391
30	Plastics, rubber, and leather products.....	3,555	3,623	3,472	3,506	10,842	11,180	11,088	3,637	3,808	3,637
31	All other nondurable goods and industries.....	11,400	11,382	11,275	11,302	33,624	33,110	32,044	11,002	11,074	10,917

¹Revised.

Footnote: The data are comparable to those published annually in the W-10. Shipments to Federal Government agencies (property shipments of inventory-completed production) are not included in the W-10. Shipments to Federal Government agencies (property shipments of inventory-completed production) are not included in the W-10.

The supplementary series are groupings of the separate industry categories as follows:
Household durable goods industries--Household furniture, kitchen appliances and pottery, cutlery, handtools, and hardware, household appliances, radio and TV, phonograph records, watches, and clocks, and miscellaneous personal goods.
Nondurable goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.
Defense products--Comparable to the previous producers' capital goods and the defense products (old series) categories.
The data are comparable to those published annually in the W-10. Shipments to Federal Government agencies (property shipments of inventory-completed production) are not included in the W-10.

TABLE 2. VALUE OF MANUFACTURED GOODS BY FIVE-DIGIT GROUPS, MARKET CATEGORIES, AND SEASONALITY, BY QUARTERS OF YEAR, IN MILLIONS OF DOLLARS

SIC	Industry	Seasonally adjusted					Not seasonally adjusted ¹					Year to date				
		Months					Quarters					Last 4 months of year and				
		1964					1964					1964				
		Apr.	May	June	July	Aug.	Apr.	May	June	July	Aug.	Apr.	May	June	July	Aug.
	TOTALS															
	All manufacturing industries.....	156,316	161,601	166,589	168,789	169,689	156,316	161,601	166,589	168,789	169,689	156,316	161,601	166,589	168,789	169,689
31	Manufacturing industries.....	142,665	147,529	152,478	154,931	155,815	142,665	147,529	152,478	154,931	155,815	142,665	147,529	152,478	154,931	155,815
32	Nonferrous metal products.....	86,089	86,488	87,092	87,396	87,473	86,089	86,488	87,092	87,396	87,473	86,089	86,488	87,092	87,396	87,473
33	Durable goods with unfilled orders.....	84,189	84,391	84,593	84,795	84,997	84,189	84,391	84,593	84,795	84,997	84,189	84,391	84,593	84,795	84,997
34	Durable goods industries.....	84,189	84,391	84,593	84,795	84,997	84,189	84,391	84,593	84,795	84,997	84,189	84,391	84,593	84,795	84,997
35	Non-durable goods industries.....	80,748	80,748	80,748	80,748	80,748	80,748	80,748	80,748	80,748	80,748	80,748	80,748	80,748	80,748	80,748
351	Industries with unfilled orders.....	16,284	16,284	16,284	16,284	16,284	16,284	16,284	16,284	16,284	16,284	16,284	16,284	16,284	16,284	16,284
352	Industries with unfilled orders.....	64,464	64,464	64,464	64,464	64,464	64,464	64,464	64,464	64,464	64,464	64,464	64,464	64,464	64,464	64,464
	MARKET CATEGORIES															
	Home goods and apparel.....	11,447	11,447	11,447	11,447	11,447	11,447	11,447	11,447	11,447	11,447	11,447	11,447	11,447	11,447	11,447
	Consumer staples.....	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406
	Equipment and defense products, except automotive.....	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406
	Automotive equipment.....	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584
	Intermediate products.....	13,095	13,095	13,095	13,095	13,095	13,095	13,095	13,095	13,095	13,095	13,095	13,095	13,095	13,095	13,095
	Other materials, supplies, and intermediate products.....	71,161	71,161	71,161	71,161	71,161	71,161	71,161	71,161	71,161	71,161	71,161	71,161	71,161	71,161	71,161
	SUPPLEMENTARY SECTORS															
	Household durable goods industries.....	5,184	5,184	5,184	5,184	5,184	5,184	5,184	5,184	5,184	5,184	5,184	5,184	5,184	5,184	5,184
	Capital goods industries.....	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406	27,406
	Business equipment.....	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584
	Business equipment.....	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584	12,584
	INDUSTRY GROUPS AND INDUSTRIES															
32	Durable goods industries:															
33	Stone, clay, and glass.....	6,532	6,532	6,532	6,532	6,532	6,532	6,532	6,532	6,532	6,532	6,532	6,532	6,532	6,532	6,532
34	Primary metals.....	10,459	10,459	10,459	10,459	10,459	10,459	10,459	10,459	10,459	10,459	10,459	10,459	10,459	10,459	10,459
35	Nonferrous and other primary metals.....	5,184	5,184	5,184	5,184	5,184	5,184	5,184	5,184	5,184	5,184	5,184	5,184	5,184	5,184	5,184
36	Fabricated metal products.....	4,811	4,811	4,811	4,811	4,811	4,811	4,811	4,811	4,811	4,811	4,811	4,811	4,811	4,811	4,811
37	Machinery, except electrical.....	15,181	15,181	15,181	15,181	15,181	15,181	15,181	15,181	15,181	15,181	15,181	15,181	15,181	15,181	15,181
38	Electrical, electronic, and optical equipment.....	1,109	1,109	1,109	1,109	1,109	1,109	1,109	1,109	1,109	1,109	1,109	1,109	1,109	1,109	1,109
39	Construction, mining, and other equipment.....	2,095	2,095	2,095	2,095	2,095	2,095	2,095	2,095	2,095	2,095	2,095	2,095	2,095	2,095	2,095
40	General industrial machinery.....	1,494	1,494	1,494	1,494	1,494	1,494	1,494	1,494	1,494	1,494	1,494	1,494	1,494	1,494	1,494

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GOODS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(Millions of dollars)

SIC	Industry	Seasonally adjusted				Not seasonally adjusted ¹												Year-to-date	
		Monthly				Quarterly				Monthly								1981	1980
		May 1981 ^P	Apr. 1981 ^P	Mar. 1981	Feb. 1981	I 1981	IV 1980	III 1980		May 1981 ^P	Apr. 1981 ^P	Mar. 1981	Feb. 1981	May 1980	Apr. 1980	Mar. 1980	Feb. 1980		
36	Electrical machinery.....	12,122	11,515	11,624	11,542	34,586	33,122	30,444		11,647	11,596	11,945	11,749	9,646	10,848	11,461	11,680	57,768	53,697
361,2	Electrical transmission and distribution.....																		
363	Industrial apparatus.....	2,048	1,712	1,928	1,810	5,608	5,506	4,969		1,997	1,851	2,026	1,959	1,582	2,166	2,047	2,048	9,715	9,480
365	Household appliances.....	1,206	1,249	1,208	1,281	3,746	3,601	3,439		1,223	1,252	1,267	1,287	1,025	1,000	1,185	1,176	6,145	5,476
366	Radio and TV.....	685	825	864	1,037	2,764	2,189	2,234		561	713	801	1,047	382	479	555	845	3,810	2,961
367	Communication equipment.....	4,197	3,688	3,822	3,495	11,093	10,780	9,422		3,961	3,735	3,427	3,421	3,144	3,610	3,632	3,527	14,641	17,028
37	Transportation equipment.....	4,727	4,777	4,777	4,777	18,058	18,058	18,058		18,058	18,058	18,058	18,058	18,058	18,058	18,058	18,058	8,914	8,914
372,6	Transportation equipment.....	15,269	16,325	17,719	15,828	49,711	48,133	48,024		18,789	18,391	18,791	15,799	13,745	17,517	17,141	16,132	10,022	8,914
	Aircraft, missiles, and parts.....	6,260	5,404	5,910	4,261	15,738	12,907	14,748		5,426	4,519	5,684	4,028	5,104	7,818	5,315	4,130	24,984	27,914
3731	Shipbuilding and military equipment.....	1,096	1,456	929	1,091	2,876	3,061	4,457		902	1,579	966	1,089	706	1,167	1,209	732	5,535	4,558
38	Instruments and related products.....	3,802	3,543	3,846	3,837	11,446	11,090	10,401		3,743	3,537	3,987	3,702	3,245	3,175	3,828	3,630	18,312	17,129
24	All other durable goods industries.....	8,271	8,656	8,399	8,544	25,234	23,868	21,669		8,593	8,945	8,770	8,255	6,710	7,209	7,924	7,760	41,491	36,595

^PPreliminary. ^RRevised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household appliances, radio and TV; ophthalmic goods, watches, and clocks; and miscellanea-
Capital goods industries--Capable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the G-177, Shipments to Federal Government Agencies (formerly Shipments of Defense-Oriented Industries 1, for the specified industries

Table 3. VALUE OF EXPORTS, IMPORTS, UNFILLED ORDERS OF THE INDUSTRIES, GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
 Billions of dollars

SIC	Industry	Seasonally adjusted												Not seasonally adjusted												
		Monthly						Quarterly						Monthly						Quarterly						
		Nov 1961P	Mar 1962P	Apr 1962P	May 1962P	Jun 1962P	Jul 1962P	Dec 1961P	Jan 1962P	Feb 1962P	Mar 1962P	Apr 1962P	May 1962P	Jun 1962P	Jul 1962P	Aug 1962P	Dec 1961P	Jan 1962P	Feb 1962P	Mar 1962P	Apr 1962P	May 1962P	Jun 1962P	Jul 1962P	Aug 1962P	
TOTALS																										
200	All manufacturing industries.....	268,238	296,711	276,333	274,814	277,179	281,245	281,245	281,245	281,245	281,245	281,245	281,245	281,245	281,245	281,245	281,245	281,245	281,245	281,245	281,245	281,245	281,245	281,245	281,245	281,245
210	Manufacturing industries excluding transportation.....	181,050	191,146	186,113	187,442	187,442	187,442	187,442	187,442	187,442	187,442	187,442	187,442	187,442	187,442	187,442	187,442	187,442	187,442	187,442	187,442	187,442	187,442	187,442	187,442	187,442
220	Durable goods industries.....	286,986	289,402	286,118	287,372	287,372	287,372	287,372	287,372	287,372	287,372	287,372	287,372	287,372	287,372	287,372	287,372	287,372	287,372	287,372	287,372	287,372	287,372	287,372	287,372	287,372
230	Non-durable goods industries.....	11,284	10,469	10,965	10,860	10,969	10,873	10,873	10,873	10,873	10,873	10,873	10,873	10,873	10,873	10,873	10,873	10,873	10,873	10,873	10,873	10,873	10,873	10,873	10,873	10,873
MARKET CATEGORIES																										
330	Home goods and apparel consumer staples.....	4,718	4,971	4,719	4,814	4,814	4,719	4,719	4,719	4,719	4,719	4,719	4,719	4,719	4,719	4,719	4,719	4,719	4,719	4,719	4,719	4,719	4,719	4,719	4,719	4,719
340	Instrument and defense products, except automotive.....	171,178	176,137	167,006	167,839	167,839	167,839	167,839	167,839	167,839	167,839	167,839	167,839	167,839	167,839	167,839	167,839	167,839	167,839	167,839	167,839	167,839	167,839	167,839	167,839	167,839
350	Construction materials, supplies, and other materials, supplies, and intermediate products.....	1,806	1,843	20,036	19,814	20,009	19,883	19,883	19,883	19,883	19,883	19,883	19,883	19,883	19,883	19,883	19,883	19,883	19,883	19,883	19,883	19,883	19,883	19,883	19,883	19,883
360	Intermediate products.....	102,348	101,746	100,433	100,716	101,364	99,825	99,825	99,825	99,825	99,825	99,825	99,825	99,825	99,825	99,825	99,825	99,825	99,825	99,825	99,825	99,825	99,825	99,825	99,825	99,825
SUPPLEMENTARY SERIES																										
420	Household durable goods, unclassified.....	3,751	4,013	3,833	3,922	3,922	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833
430	Capital goods industries.....	201,663	199,516	197,981	197,181	197,181	197,181	197,181	197,181	197,181	197,181	197,181	197,181	197,181	197,181	197,181	197,181	197,181	197,181	197,181	197,181	197,181	197,181	197,181	197,181	197,181
440	Non-durable goods.....	133,742	133,178	133,033	133,117	133,117	133,117	133,117	133,117	133,117	133,117	133,117	133,117	133,117	133,117	133,117	133,117	133,117	133,117	133,117	133,117	133,117	133,117	133,117	133,117	133,117
450	Intermediate products.....	61,921	62,138	62,348	62,348	62,348	62,348	62,348	62,348	62,348	62,348	62,348	62,348	62,348	62,348	62,348	62,348	62,348	62,348	62,348	62,348	62,348	62,348	62,348	62,348	62,348
INDUSTRY GROUPS AND INDUSTRIES																										
220	Durable goods industries.....	2,419	2,467	2,467	2,467	2,467	2,467	2,467	2,467	2,467	2,467	2,467	2,467	2,467	2,467	2,467	2,467	2,467	2,467	2,467	2,467	2,467	2,467	2,467	2,467	2,467
310	Non-metallic mineral products.....	18,032	18,761	18,362	18,032	18,032	18,032	18,032	18,032	18,032	18,032	18,032	18,032	18,032	18,032	18,032	18,032	18,032	18,032	18,032	18,032	18,032	18,032	18,032	18,032	18,032
331-4, 9	Primary metal industries.....	9,001	9,022	9,078	9,078	9,078	9,078	9,078	9,078	9,078	9,078	9,078	9,078	9,078	9,078	9,078	9,078	9,078	9,078	9,078	9,078	9,078	9,078	9,078	9,078	9,078
340	Nonferrous and other primary metal products.....	27,543	27,653	27,653	27,653	27,653	27,653	27,653	27,653	27,653	27,653	27,653	27,653	27,653	27,653	27,653	27,653	27,653	27,653	27,653	27,653	27,653	27,653	27,653	27,653	27,653
350	Machinery, electrical, and electronic equipment.....	16,944	16,980	16,847	16,847	16,847	16,847	16,847	16,847	16,847	16,847	16,847	16,847	16,847	16,847	16,847	16,847	16,847	16,847	16,847	16,847	16,847	16,847	16,847	16,847	16,847
353	Construction, mining, and material-handling equipment.....	10,363	10,266	9,816	9,816	9,816	9,816	9,816	9,816	9,816	9,816	9,816	9,816	9,816	9,816	9,816	9,816	9,816	9,816	9,816	9,816	9,816	9,816	9,816	9,816	9,816
354	Transportation equipment.....	6,353	6,353	6,353	6,353	6,353	6,353	6,353	6,353	6,353	6,353	6,353	6,353	6,353	6,353	6,353	6,353	6,353	6,353	6,353	6,353	6,353	6,353	6,353	6,353	6,353
356	General industrial machinery.....	6,520	6,394	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURES' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry group	(Millions of dollars)												
		Seasonally adjusted						Not seasonally adjusted ¹						
		Monthly			Quarterly			Monthly			Quarterly			
		May 1981P	Apr. 1981P	Mar. 1981	Feb. 1981	IV 1980	III 1980	II 1980	I 1980	IV 1979	Last 4 months 1981P			
										Mar. 1981	Apr. 1981	May 1981	Jun. 1981	
	INDUSTRY GROUP AND INDUSTRIES--Continued													
	Durable goods industries--Continued													
	Electrical machinery.....	42,297	41,888	41,538	41,074	39,710	38,534	38,830	37,944	35,631	42,076	41,876	41,450	41,108
36	Electrical transmission and distribution equipment and industrial appliances.....	8,405	8,199	8,279	8,197	7,883	7,825	8,000	7,657	7,531	8,449	8,321	8,291	8,213
361,2	Household appliances.....	446	438	437	414	433	480	433	310	364	470	462	452	438
363	Radio and TV.....	181	179	179	179	179	179	179	179	179	179	179	179	179
364	Communication equipment.....	21,916	21,561	21,285	20,815	20,004	18,659	18,365	17,592	16,123	21,588	21,440	21,249	20,949
365	Electronic components.....	10,352	10,311	10,058	10,174	10,174	10,225	10,792	11,014	10,308	10,414	10,331	10,038	10,993
366	Electronic components.....	10,352	10,311	10,058	10,174	10,174	10,225	10,792	11,014	10,308	10,414	10,331	10,038	10,993
37	Transportation equipment.....	117,248	115,555	114,999	113,921	112,805	113,055	109,611	105,642	102,906	115,736	115,448	115,391	108,565
372,6	Aircraft, missiles, and space vehicles.....	93,465	91,848	91,397	90,622	89,578	90,632	88,827	81,804	77,929	91,935	91,935	91,972	91,703
3731	Shipbuilding and military tank vehicles.....	15,040	14,879	14,300	14,282	14,032	13,203	11,205	11,237	11,297	15,054	15,065	14,386	11,512
3795	Instruments and related products.....	6,236	6,298	6,429	6,440	6,341	6,232	6,295	6,459	5,985	6,224	6,327	6,415	6,369
38	All other durable goods industries.....	3,680	3,792	3,537	3,211	2,841	2,817	3,084	3,514	3,317	3,831	3,809	3,415	3,014
39	Industries.....													
391	Shipbuilding and military tank vehicles.....	15,040	14,879	14,300	14,282	14,032	13,203	11,205	11,237	11,297	15,054	15,065	14,386	11,512
392	Instruments and related products.....	6,236	6,298	6,429	6,440	6,341	6,232	6,295	6,459	5,985	6,224	6,327	6,415	6,369
393	All other durable goods industries.....	3,680	3,792	3,537	3,211	2,841	2,817	3,084	3,514	3,317	3,831	3,809	3,415	3,014
394	Industries.....													
395	Shipbuilding and military tank vehicles.....	15,040	14,879	14,300	14,282	14,032	13,203	11,205	11,237	11,297	15,054	15,065	14,386	11,512
396	Instruments and related products.....	6,236	6,298	6,429	6,440	6,341	6,232	6,295	6,459	5,985	6,224	6,327	6,415	6,369
397	All other durable goods industries.....	3,680	3,792	3,537	3,211	2,841	2,817	3,084	3,514	3,317	3,831	3,809	3,415	3,014
398	Industries.....													
399	Shipbuilding and military tank vehicles.....	15,040	14,879	14,300	14,282	14,032	13,203	11,205	11,237	11,297	15,054	15,065	14,386	11,512
399	Instruments and related products.....	6,236	6,298	6,429	6,440	6,341	6,232	6,295	6,459	5,985	6,224	6,327	6,415	6,369
399	All other durable goods industries.....	3,680	3,792	3,537	3,211	2,841	2,817	3,084	3,514	3,317	3,831	3,809	3,415	3,014
399	Industries.....													

Preliminary.

Revised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are of the end of the period and are not adjusted for trading day or calendar-month variations.

²Supplementary series are groupings of the separate industry categories as follows:
 1. Household goods: Industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radio and TV; optical goods, watches, and clocks; and miscellaneous personal goods.

Capital goods Industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.
 Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), the nondefense portion of shipbuilding and repairing and railroad equipment, and miscellaneous equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the W-1's, "Shipments in Federal Government Agencies" (formerly "Shipments of Government Industries") for the specific categories.
 Beginning in 1976, the fiscal year for the Federal Government probably affected the awarding of contracts and other financial arrangements. Although the impact of this change is not known, the use of previous established seasonal factors would have substantially distorted the current data since these seasonal factors reflect historical government purchasing patterns. Therefore, beginning in July 1977, the seasonal factors are based on the calendar year. The seasonal factors for the previous calendar quarter, i.e., one quarter preceding the end of the fiscal year. These seasonal factors are used to calculate the seasonal pattern of the defense industries.

Since each data are not compiled separately, this method of calculating the seasonal factors will be used until a sufficient amount of data are available to assess the impact of the change in the fiscal year on the seasonal pattern of the defense industries.

Table 4. SALES OF MANUFACTURES: INDUSTRIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(Millions of dollars)

SIC	Industry	Seasonally adjusted												Not seasonally adjusted													
		Monthly						Quarterly						Yearly						Yearly							
		Monthly						Quarterly						Yearly						Yearly							
		May 1981	Apr. 1981	Mar. 1981	Feb. 1981	Jan. 1981	Dec. 1980	III 1980	II 1980	I 1980	IV 1979	III 1979	II 1979	May 1981	Apr. 1981	Mar. 1981	Feb. 1981	Jan. 1981	Dec. 1980	May 1980	Apr. 1980	Mar. 1980	Feb. 1980	Jan. 1980	Dec. 1979		
TOTALS																											
32	All manufacturing industries.....	256,423	255,010	253,450	251,731	249,493	247,615	243,630	238,552	228,298	227,431	226,114	224,867	222,863	224,401	223,705	223,837	223,758	223,758	223,758	223,758	223,758	223,758	223,758	223,758	223,758	223,758
33	Manufacturing industries, except transportation, equipment, and defense.....	219,721	218,004	216,595	214,602	209,296	206,665	210,942	207,075	198,342	220,757	218,963	217,514	215,943	212,885	211,484	208,128	205,848	205,848	205,848	205,848	205,848	205,848	205,848	205,848	205,848	205,848
331	Manufacturing industries with unfilled orders.....	177,396	177,064	176,645	174,833	169,929	168,621	168,682	168,504	158,073	179,314	178,365	176,736	175,390	170,731	168,613	165,566	165,566	165,566	165,566	165,566	165,566	165,566	165,566	165,566	165,566	165,566
332	Durable goods industries.....	168,555	168,007	166,830	165,278	161,907	160,891	160,406	157,127	151,689	170,302	169,461	168,437	167,426	162,275	161,306	158,721	155,470	155,470	155,470	155,470	155,470	155,470	155,470	155,470	155,470	155,470
333	Durable goods with unfilled orders.....	157,786	157,432	156,248	155,361	151,325	150,081	149,701	146,068	140,433	159,346	158,525	157,378	156,281	151,034	149,734	146,748	143,121	143,121	143,121	143,121	143,121	143,121	143,121	143,121	143,121	143,121
334	Nondurable goods industries.....	87,668	87,003	86,620	86,953	82,586	82,924	83,226	81,395	76,399	87,629	86,653	86,230	85,417	84,226	82,399	81,116	80,288	80,288	80,288	80,288	80,288	80,288	80,288	80,288	80,288	80,288
335	Nondurable goods with unfilled orders.....	19,310	19,632	19,397	19,277	18,626	18,560	18,481	18,441	17,439	19,968	19,840	19,378	19,109	18,934	18,418	17,981	17,981	17,981	17,981	17,981	17,981	17,981	17,981	17,981	17,981	17,981
MARKET CATEGORIES																											
33	Home goods and apparel.....	19,007	18,866	18,439	18,419	18,118	17,845	18,286	18,168	17,384	19,715	19,172	18,615	18,288	18,104	18,723	18,154	17,712	17,712	17,712	17,712	17,712	17,712	17,712	17,712	17,712	17,712
331	Consumer staples.....	32,099	31,750	31,904	31,499	31,071	30,418	30,418	30,420	29,742	31,459	31,410	31,534	31,768	29,742	30,079	30,119	30,270	30,270	30,270	30,270	30,270	30,270	30,270	30,270	30,270	30,270
332	Equipment and defense products, except automotive.....	72,825	72,506	71,609	71,612	69,967	69,213	67,819	64,718	61,621	73,672	73,160	72,497	72,112	67,809	66,851	65,567	64,240	64,240	64,240	64,240	64,240	64,240	64,240	64,240	64,240	64,240
333	Automotive equipment.....	9,136	9,160	9,294	9,272	9,223	9,347	9,647	10,183	10,347	9,017	9,173	9,463	9,568	9,896	10,450	10,382	10,424	10,424	10,424	10,424	10,424	10,424	10,424	10,424	10,424	10,424
334	Construction materials, supplies, and other intermediates.....	20,850	20,508	20,427	20,270	20,035	19,849	19,954	20,166	19,846	21,180	20,969	20,942	20,781	20,417	20,618	20,672	20,036	20,036	20,036	20,036	20,036	20,036	20,036	20,036	20,036	20,036
335	Intermediate products.....	102,506	102,218	101,543	100,065	95,951	96,400	97,506	94,867	89,311	103,088	102,230	101,216	100,366	97,926	96,984	94,943	94,076	94,076	94,076	94,076	94,076	94,076	94,076	94,076	94,076	94,076
SUPPLEMENTARY SERIES																											
33	Household durable goods industries.....	9,457	9,447	9,330	9,226	9,155	9,058	9,267	9,311	9,180	9,777	9,586	9,356	9,208	9,718	9,643	9,350	9,218	9,218	9,218	9,218	9,218	9,218	9,218	9,218	9,218	9,218
332	Capital goods industries.....	81,994	81,666	80,599	79,400	77,401	75,370	72,177	68,640	62,895	82,414	81,555	80,588	75,499	74,444	72,853	71,378	70,427	70,427	70,427	70,427	70,427	70,427	70,427	70,427	70,427	70,427
333	Defense.....	68,506	68,419	67,954	66,171	66,091	64,782	62,102	59,178	59,342	69,342	69,168	68,594	68,258	64,946	64,164	62,813	61,793	61,793	61,793	61,793	61,793	61,793	61,793	61,793	61,793	61,793
334	Nonferrous and other primary metals.....	13,428	13,247	13,045	12,845	12,058	10,884	10,588	10,075	9,462	13,553	13,446	12,961	12,600	10,553	10,280	10,040	9,585	9,585	9,585	9,585	9,585	9,585	9,585	9,585	9,585	9,585
335	INDUSTRY GROUPS AND INDUSTRIES																										
32	Durable goods industries:	6,477	6,342	6,255	6,172	6,047	5,920	6,141	5,987	5,843	6,538	6,353	6,312	6,479	6,257	6,275	6,134	5,938	5,938	5,938	5,938	5,938	5,938	5,938	5,938	5,938	5,938
322	Stoves, clay, and glass products	592	578	568	560	553	545	555	545	535	592	578	568	560	553	545	535	525	515	515	515	515	515	515	515	515	515
33	Glass containers.....	21,590	21,680	21,648	21,434	20,285	20,187	20,884	20,387	19,403	21,627	21,493	21,565	21,401	20,918	20,500	20,307	20,427	20,427	20,427	20,427	20,427	20,427	20,427	20,427	20,427	20,427
331	Primary metals.....	11,252	11,416	11,519	11,489	11,045	10,884	11,751	11,151	10,834	11,093	11,050	11,277	11,408	11,150	11,105	10,917	11,256	11,256	11,256	11,256	11,256	11,256	11,256	11,256	11,256	11,256
332	Blair furnaces, steel mills.....	8,938	8,871	8,749	8,585	8,400	8,097	7,711	7,468	7,263	9,426	8,990	8,845	8,677	7,898	7,992	7,935	7,757	7,757	7,757	7,757	7,757	7,757	7,757	7,757	7,757	7,757
333	Nonferrous and other primary metals.....	19,361	19,376	19,315	19,441	19,239	18,865	19,451	19,595	19,406	19,718	19,444	19,445	19,324	19,044	20,003	19,568	19,368	19,368	19,368	19,368	19,368	19,368	19,368	19,368	19,368	19,368
34	Fabricated metal products.....	1,327	1,322	1,339	1,313	1,268	1,267	1,439	1,502	1,534	1,490	1,495	1,510	1,530	1,760	1,782	1,669	1,548	1,548	1,548	1,548	1,548	1,548	1,548	1,548	1,548	1,548
341	Drums, barrels, and other metal containers.....	39,452	39,062	38,909	38,865	38,352	39,107	38,940	37,409	36,524	39,342	39,470	39,283	39,406	39,122	38,193	37,959	37,959	37,959	37,959	37,959	37,959	37,959	37,959	37,959	37,959	37,959
35	Machinery, except electrical.....	2,837	2,862	2,837	2,848	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799
352	Transportation equipment.....	2,837	2,862	2,837	2,848	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799	2,799
353	Farm machinery and equipment.....	8,628	8,627	8,333	8,229	8,026	8,389	8,739	8,308	8,150	8,628	8,385	8,418	8,669	8,608	8,608	8,608	8,608	8,608	8,608	8,608	8,608	8,608	8,608	8,608	8,608	8,608
354	Material-handling equipment.....	2,375	2,392	2,369	2,445	2,476	2,446	2,460	2,436	2,414	2,491	2,408	2,378	2,437	2,569	2,550	2,446	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403	2,403
355	Metalworking machinery.....	3,755	3,749	3,689	3,647	3,670	3,715	3,725	3,671	3,650	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775
356	General industrial machinery.....																										

See footnotes at end of table.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)											
		Seasonally adjusted						Quarterly					
		Monthly						Last 4 months					
		May 1981	Apr 1981	Mar 1981	Feb 1981	Jan 1981	Dec 1980	May 1981	Apr 1981	Mar 1981	Feb 1981	Jan 1981	Dec 1980
36	Electrical machinery.....	23,196	23,327	22,633	22,844	22,135	22,095	21,861	21,620	20,598			
361.2	Electric, electronic, and optical equipment and instruments.....												
362	Industrial appliances.....	4,167	4,143	3,987	3,968	3,904	3,955	3,982	3,868	3,770			
363	Household appliances.....	2,005	2,013	1,983	1,972	1,974	1,893	1,998	2,161	2,116			
365	Radio and TV.....	1,237	1,219	1,189	1,187	1,187	1,187	1,187	1,187	1,187			
367	Electronic components.....	3,643	3,637	3,517	3,517	3,475	3,383	3,386	3,240	3,099			
37	Transportation equipment.....	37,102	37,006	36,855	36,629	35,229	33,950	32,688	31,447	29,916			
371	Motor vehicles and parts.....	7,174	7,206	7,354	7,366	7,287	7,401	7,485	7,827	8,012			
372.6	Aircraft, missiles, and parts	25,018	24,999	24,777	24,514	23,502	22,153	20,369	19,049	17,417			
3795	Tank vehicles, military												
38	Instruments and related products.....	3,062	2,923	2,867	2,855	2,577	2,383	2,386	2,130	2,165			
381-4	Scientific and engineering.....	8,751	8,775	8,607	8,556	8,438	8,290	8,393	8,237	7,765			
39	Photographic goods.....	6,311	6,316	6,162	6,143	5,951	5,890	5,859	5,597	5,581			
24	All other durable goods	2,034	2,047	2,027	2,198	1,962	1,762	2,003	2,155	1,986			
25	Industries.....	12,626	12,441	12,208	12,237	12,166	12,279	12,046	12,181	11,936			
20	Nondurable goods industries	21,299	21,020	21,238	21,164	21,362	21,337	20,272	20,431	20,397			
201	Food and kindred products.....	1,983	2,002	2,022	2,066	2,079	1,918	1,781	1,851	1,927			
202	Textile mill products.....	3,780	3,780	3,780	3,780	3,780	3,780	3,780	3,780	3,780			
203-6.9	Textile mill products, except cotton, wool, and silk.....	3,780	3,780	3,780	3,780	3,780	3,780	3,780	3,780	3,780			
21	All other foods.....	11,971	11,595	11,687	11,584	11,601	11,706	11,152	11,333	10,999			
22	Tobacco products.....	3,708	3,649	3,708	3,627	3,524	3,722	3,529	3,506	3,503			
23	Textile mill products.....	6,344	6,403	6,342	6,339	6,187	5,876	6,085	6,096	5,844			
24	Textile mill products, except cotton, wool, and silk.....	7,553	7,553	7,553	7,553	7,553	7,553	7,553	7,553	7,553			
261-3	Chemicals and allied products.....	2,141	2,146	2,120	2,068	1,925	1,903	2,030	1,981	1,909			
265	Paperboard containers.....	2,961	2,979	3,002	2,982	2,897	2,817	2,912	2,880	2,868			
28	All other paper containers.....	20,101	19,682	19,487	19,175	18,516	18,489	19,330	18,677	16,982			
281.6	Chemicals and allied products, except drugs, soap, and toiletries.....	6,698	6,371	6,277	6,129	5,900	5,887	6,653	6,055	5,246			
283.4	Drugs, soap, and toiletries.....	5,927	5,862	5,907	5,864	5,676	5,664	5,707	5,531	5,333			
29	Petroleum and coal products.....	10,353	10,249	9,206	8,396	8,894	8,763	8,062	6,581	10,274			
30	Rubber and plastic products.....	4,690	4,608	4,699	4,650	4,474	4,470	4,817	4,954	4,777			
33	All other nondurable goods	13,310	13,235	13,060	12,903	12,649	12,661	12,832	12,373	11,690			
31	Industries.....												

Preliminary.

Revised.

Shipment and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are adjusted for trading-day and calendar-month variations.

Trade-in and replacement of the separate industry categories as follows:

Household durable goods: Industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware, household appliances, radio and TV, phonographs, records, watches and clocks, and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondurable goods--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), defense products--Machinery, except electrical (excluding aircraft parts, electronic equipment, communication equipment, aircraft and aircraft parts, and shipbuilding, defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the WA-175, "Shipments to Federal Government Agencies," formerly "Shipments of Defense-Related Industries," for the specified industries.

2

Preliminary. Revised.

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent changes							Revisions ²		
	Month-to-month			Average monthly rates of change ¹				Year april May 1980	Average monthly	
	Apr. 1981- May 1981	Mar. 1981- Apr. 1981	Feb. 1981- Mar. 1981	First quarter 1981	Fourth quarter 1980	Third quarter 1980	Jun. 1980 through May 1981		May 1980 through Apr. 1981	May 1976-1980
Shipments:										
All manufacturing industries.....	+0.7	-0.1	+0.5	+0.7	+1.4	+2.6	+1.2	0.1	0.3	0.3
Durable goods industries.....	+0.5	+0.7	+1.2	+0.8	+1.5	+3.5	+1.5	-	0.3	0.3
Nondurable goods industries.....	+1.0	-1.0	-0.1	+0.5	+1.3	+1.7	+0.9	0.3	0.5	0.6
Inventories:										
All manufacturing industries.....	+0.6	+0.6	+0.9	+1.2	+0.1	-	+0.4	0.2	0.2	0.1
New orders:										
All manufacturing industries.....	+0.6	-0.5	+1.2	+0.5	+1.5	+3.9	+1.4	0.5	0.4	0.4
Durable goods industries.....	-0.2	+0.1	+2.4	+0.6	+1.5	+5.9	+1.9	0.4	0.6	0.4
Nondurable goods industries.....	+1.4	-1.0	-0.1	+0.4	+1.4	+1.9	+1.0	0.4	0.4	0.7
Unfilled orders:										
Durable goods industries.....	+0.4	+0.6	+0.8	+0.5	+0.6	+0.5	+0.4	0.1	0.1	0.1

- Represents zero.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfiled orders--shipments ratio ¹ (months' backlog)			
	May 1981 ^P	Apr. 1981 ^R	Mar. 1981	Feb. 1981	May 1981 ^P	Apr. 1981 ^R	Mar. 1981	Feb. 1981
All manufacturing industries.....	1.57	1.57	1.56	1.55	3.49	3.49	3.45	3.48
Durable goods industries.....	2.03	2.03	2.03	2.05	4.15	4.17	4.12	4.15
Stone, clay, and glass products.....	1.45	1.37	1.41	1.36	0.60	0.57	0.60	0.61
Primary metals.....	1.85	1.82	1.84	1.72	2.47	2.48	2.50	2.33
Fabricated metals.....	1.95	1.94	1.89	1.93	3.02	3.01	2.96	2.98
Machinery, except electrical.....	2.57	2.55	2.51	2.55	4.12	4.15	4.05	4.10
Electrical machinery.....	1.98	2.09	2.05	2.09	3.61	3.75	3.72	3.76
Transportation equipment.....	2.11	2.12	2.18	2.36	12.26	12.16	11.79	13.32
Instruments and related products.....	2.26	2.39	2.23	2.25	1.61	1.71	1.67	1.69
Nondurable goods industries.....	1.09	1.09	1.08	1.05	0.69	0.66	0.66	0.67
Food and kindred products.....	0.98	0.95	0.97	0.96	(X)	(X)	(X)	(X)
Tobacco products.....	3.09	2.93	3.10	2.88	(X)	(X)	(X)	(X)
Textile mill products.....	1.40	1.44	1.45	1.45	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.29	1.27	1.25	1.25	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.35	1.34	1.26	1.28	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.62	0.65	0.62	0.55	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.35	1.33	1.35	1.33	(X)	(X)	(X)	(X)

(NA) Not available.

^PPreliminary.^RRevised.

(X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey (M3-1) provides monthly figures that are comparable to the annual totals published each year in the Annual Survey of Manufactures (ASM). The ASM is a probability sample of approximately 70,000 manufacturing establishments drawn from the most recent 5-year census universe of about 312,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. Until 1976, the ASM did not compile information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification (SIC) system and area data for industry groups.

The estimates presented in the M3 report are based on a sample panel of approximately 5,000 reporting units, consisting of virtually all manufacturing companies with 1,000 or more employees and additional medium-sized companies that strengthen the sample coverage in individual industry cells. The reporting unit for many medium- or single-line companies comprises all operations of the company. Many of the larger diversified companies file separate divisional reports for their operations in different industries, although this divisional reporting is not followed by all large companies.

Each reporting unit in the monthly panel is classified into one of 79 industry classifications for tabulation. Many of the reporting units included mixed industry activity even within the broad industry categories of the monthly survey. However, the survey estimating procedure assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category. This ratio estimating procedure is used for all items compiled in the survey except for new orders which is discussed separately below.

The M3 series is periodically benchmarked to the ASM for shipments and inventories. The most recent benchmark was for 1974 through 1976. In the absence of benchmark data for unfilled orders, levels were set in August 1962 based upon the ratio of unfilled orders to sales for companies reporting in the M3. These levels were reset as of December 1973. Historical data, 1967-1978, including the seasonally adjusted series, reflecting seasonal factors based on data through December 1978, are published in the M3-1.8 report issued in August 1979.

The M3 data are subject to some limitations primarily resulting from the relatively small sample used to develop the estimates and the use of divisional and company reports to extrapolate establishment based data. Precise measurement of these limitations based on estimates of the sampling errors is not available. In addition to the general limitations of M3 survey data, the estimated levels of unfilled orders are subject to further limitations due to the assumptions made in developing these levels, the definition of unfilled orders, and response

difficulties. These limitations are discussed in greater detail on pages i-iv in the introductory chapter of the latest benchmark publication mentioned above. Generally, the limitations to the unfilled orders data primarily apply to the absolute level of unfilled orders and, to a much lesser extent, to the month-to-month change in unfilled orders. Since this month-to-month change in unfilled orders is used to develop the monthly estimates of new orders, the estimates of new orders are subject to fewer limitations than the unfilled orders estimates.

EXPLANATION OF TERMS

Value of Shipments—Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for other, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the ship building industry the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments. Value of work done is also reported by aircraft and missile producers working on cost-plus contracts.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for all the manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from the division of the company to another as if they were net sales to outside customers. Although this definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders and Unfilled Orders—The unfilled orders shown in this publication represent the net sales value of goods on order which have not been shipped. They are net of cancellations and include all adjustments resulting from contract

change documents. Only those orders supported by binding legal documents such as signed contracts or letter contracts are included. Some large defense contracts are authorized and funded in several stages. Only the funded portion of such contracts are included in these figures.

New orders are not calculated according to the standard ratio estimate procedure, even though they are collected as a separate item. The reason for this is that not all companies report new orders, and some that do limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. To take advantage of the higher response rate for shipments data and to include orders filled from inventory, new orders are computed by adding the change in the backlog of unfilled orders to the current month's shipments. Thus, the estimate of new orders includes orders that are received and filled in the same month as well as orders that have not yet been filled. The estimate also includes the effects of cancellations and modifications of previously existing contracts.

Seasonally adjusted new orders are similarly derived from the monthly change in the seasonally adjusted backlog of unfilled orders and seasonally adjusted shipments. Many nondurable goods industries and some durable goods industries have no backlog of unfilled orders. Shipments are used as the estimate of new orders in these industries.

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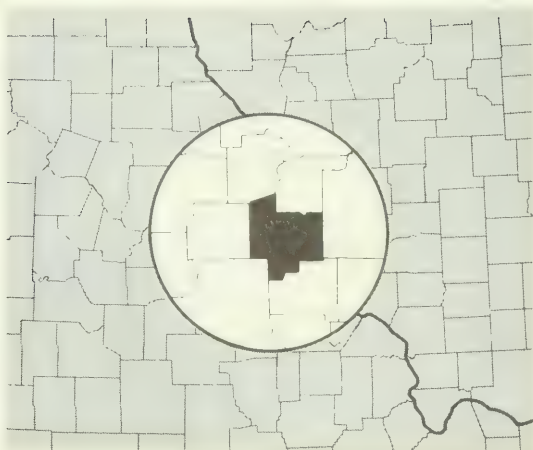
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The reports described in this announcement are also available on microfiche. For further information, contact: Data User Services Division, Customer Services (Microfiche), Bureau of the Census, Washington, D.C. 20233.

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Manufacturers' Shipments, Inventories, and Orders

JUNE 1981

M3-1(81)-6

For Wire Transmission 2:30 P.M. E.D.T. Friday, July 31, 1981



U.S. Department of Commerce
BUREAU OF THE CENSUS

(All figures in text below are in seasonally adjusted current dollars.)

The January through June data presented in this report are consistent with the revised data for 1972-1980 released July 21, 1981 by the Department of Commerce. These revisions, published in *Manufacturers' Shipments, Inventories, and Orders: 1972-1980* (M3-1.10), reflect: benchmarking of the shipments and inventory data to the 1977 Census of Manufactures and the 1978 Annual Survey of Manufactures; benchmarking defense shipments to the MA-175, *Shipments to Federal Government Agencies*; recalculation of new orders estimates which are derived from the estimates of unfilled orders and shipments; adjustments to unfilled orders levels; and updating of seasonal adjustment factors.

New orders for manufactured goods in June increased \$1.5 billion or 0.9% to \$170.9 billion the Department of Commerce, Bureau of the Census reported today. New orders for the durable goods industries increased \$0.3 billion or 0.4% to \$88.5 billion, revised from the earlier reported decline of 0.8%. Most of the revision was due to more complete reporting in the transportation and nonelectrical machinery categories.

Within the major durable industry categories the pattern of change in new orders from May to June was mixed. New orders for electrical machinery were up \$0.9 billion or 7.4% to \$12.6 billion, with communication equipment and radio and TV's showing the largest increases. New orders for transportation equipment were down in June \$0.8 billion or 3.8% to \$19.3 billion. The largest decline was in aircraft and parts orders, down \$1.6 billion or 27% to \$4.2 billion. New orders for the aircraft and parts industry so far this year have averaged \$5.1 billion, compared to the monthly averages in 1980 of \$5.3 billion, and 1979 of \$5.4 billion. New orders for fabricated metal products were up \$0.5 billion or 4.2% for the month to \$11.1 billion, while orders for primary metals were down \$0.5 billion or 4.6% to \$11.3 billion. The primary metal decline was attributable to the nonferrous category which has shown order declines in 7 of the last 8 months.

New orders in the capital goods categories, both defense and nondefense, were down in June. New orders for nondefense capital goods were down \$0.6 billion or 2.6% to \$23.2 billion, as the decline in aircraft orders was only partially offset by increases in most of the other categories. Without the aircraft industry, nondefense capital goods orders increased 2.1%. New orders for defense capital goods decreased \$0.2 billion or 4.6% to \$5.1 billion, following a 35% increase last month.

Shipments of manufactured goods in June increased \$3.4 billion or 2.0% to \$171.0 billion. This is the largest one month increase recorded since a 2.6% increase last October.

A 2.1% increase in durable goods shipments was mostly attributable to a gain in the motor vehicle and parts category. Shipments for that industry were up \$1.1 billion or 9.4% to \$13.4 billion, nearly double the volume of shipments of June 1980 of \$7.6 billion.

A 2.0% increase in nondurable goods shipments resulted from widespread gains. The largest dollar increase occurred in the food products industry where an increase of \$0.6 billion or 2.9% to \$22.6 billion followed a 3.4% decline in May.

The level of manufacturers' unfilled orders in June remained virtually unchanged from May at \$326.5 billion. An increase in the backlog of orders for defense capital goods of \$1.1 billion or 1.5% to \$75.0 billion was offset by a \$1.1 billion decline in nondefense capital goods orders backlog. The decline in the nondefense category was caused mostly by a drop in the commercial aircraft industry.

The book value of manufacturers' inventories in June remained unchanged from May at \$269.3 billion. Durable goods inventories increased 0.3% while nondurable goods inventories declined 0.5%. Manufacturers' inventories by stage of fabrication in June showed a somewhat different pattern of change. Raw materials inventories were down 0.1%, work-in-process inventories down 0.7%, while finished goods inventories increased 0.9%. The inventory to shipments ratio for June was 1.58 down from 1.61 recorded in May.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for July is scheduled for release on August 21, 1981, and the full report is scheduled for release on September 1, 1981.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(Millions of dollars)

SIC	Industry	Seasonally adjusted					Not seasonally adjusted ¹					Year-to-date	
		June 1981	May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981	June 1981	May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981
		1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981
TOTALS													
	All manufacturing industries.....	170,958	167,527	167,491	165,804	165,308	164,588	179,418	169,040	170,432	175,252	167,113	1,012,987
	Manufacturing industries excluding transportation.....	150,524	148,397	148,531	147,352	146,170	147,667	157,496	148,973	150,149	154,728	149,458	897,361
	Manufacturing industries with unfilled orders.....	89,862	88,369	87,948	88,048	87,077	85,761	95,177	89,150	89,351	93,241	87,688	532,963
	Durable goods industries.....	88,470	86,664	86,337	85,058	84,215	83,129	94,722	88,289	88,627	91,521	84,746	523,290
	Durable goods with unfilled orders.....	72,814	71,650	71,105	71,268	70,489	69,596	77,769	72,411	72,512	76,060	70,896	424,014
	Nondurable goods industries.....	82,488	80,863	81,164	80,746	81,793	81,259	84,696	80,751	81,195	83,729	82,416	489,696
	Nondurable goods with unfilled orders.....	17,048	16,739	16,843	16,780	16,687	16,166	17,408	16,739	16,839	17,181	16,792	100,183
MARKET CATEGORIES													
	Home goods and apparel.....	12,489	12,225	12,282	12,054	12,173	11,869	12,858	11,591	11,821	12,544	12,178	71,195
	Construction equipment.....	29,156	28,207	29,003	28,166	28,759	28,682	29,804	27,841	28,611	29,280	28,791	171,123
	Equipment and defense products, except automotive.....	25,667	25,241	25,185	25,641	24,315	24,213	27,711	25,416	25,491	27,432	26,483	152,305
	Automotive equipment.....	15,216	14,134	13,827	13,017	12,738	12,725	16,367	15,019	14,766	14,826	12,975	85,393
	Construction materials, supplies, and intermediate products.....	12,819	12,812	13,056	13,100	13,340	13,062	13,992	13,275	13,413	13,125	12,236	76,868
	Other materials, supplies, and intermediate products.....	75,611	74,898	74,137	73,626	74,484	74,116	78,686	75,898	75,918	78,063	76,500	455,388
SUPPLEMENTARY SERIES ²													
Household durable goods industries.....													
	Capital goods industries.....	5,373	5,291	5,567	5,392	5,327	5,124	5,575	5,105	5,352	5,598	5,276	31,383
	Nondefense.....	28,349	27,982	27,773	28,159	26,923	26,721	30,394	27,969	27,960	30,049	27,467	167,923
	Defense.....	24,325	24,041	23,810	23,999	23,062	23,136	26,184	23,954	23,965	25,774	23,532	144,301
	Nonferrous and other primary metals.....	4,024	3,941	3,964	4,161	3,861	3,584	4,210	4,015	3,995	4,275	3,834	23,620
INDUSTRY GROUPS AND INDUSTRIES													
Durable goods industries:													
	Stone, clay, and glass products.....	4,147	4,180	4,293	4,211	4,216	4,170	4,525	4,279	4,364	4,277	3,903	24,824
	Textile mill product.....	11,537	11,498	11,573	11,457	11,466	11,384	12,619	12,267	12,431	12,559	12,553	73,482
	Primary furnaces, steel mills.....	6,170	6,159	6,101	6,122	6,096	6,086	6,614	6,384	6,437	6,392	6,108	37,680
	Nonferrous and other primary metals.....	4,517	4,472	4,460	4,522	4,816	4,840	4,784	4,683	4,789	4,936	4,959	30,877
	Fabricated metal products.....	10,653	10,594	10,459	10,550	10,318	10,211	11,369	10,800	10,724	11,078	10,405	63,639
	Trucks.....	813	826	852	836	908	875	925	865	860	854	856	5,094
	Machinery, except electrical.....	17,039	16,775	16,836	16,919	16,723	16,636	18,445	16,869	17,194	18,461	16,982	98,242
	Engines and turbines.....	1,355	1,373	1,364	1,327	1,354	1,383	1,478	1,362	1,351	1,461	1,358	8,304
	Farm machinery and equipment.....	1,317	1,216	1,278	1,214	1,136	1,264	1,369	1,309	1,240	1,470	1,221	8,094
	Construction, mining, and electrical machinery.....	3,307	3,318	3,223	3,160	3,162	3,197	3,462	3,384	3,400	3,321	3,199	19,975
	Metalworking machinery.....	1,991	1,984	1,908	1,971	1,989	1,961	2,041	1,981	1,965	2,041	1,956	9,645
	General industrial machinery.....	1,347	1,441	1,391	1,474	1,316	1,261	1,469	1,509	1,429	1,554	1,374	8,454

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY CATEGORIES, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted					Not seasonally adjusted ¹					Year-to-date				
		June 1981 ^P	May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981	June 1981 ^P	May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981	1981	1980	
INDUSTRY GROUPS AND INDUSTRIES--																
Continued																
Durable goods industries--																
Continued																
36	Electrical machinery.....	11,680	11,597	11,373	11,284	11,041	10,777	12,331	11,338	11,301	11,812	11,293	9,986	68,061	62,070	
361,2	Electrical transmission and distribution equipment and industrial apparatus.....	1,943	1,916	1,974	1,925	1,771	1,709	2,089	1,937	1,900	2,035	1,903	1,640	11,555	11,504	
363	Radio and TV.....	1,191	1,121	1,156	1,091	1,129	1,188	998	1,115	1,143	1,154	1,140	6,856	6,069	5,510	
365	Communication equipment.....	941	937	984	929	912	868	988	782	860	901	919	3,833	3,183	2,811	
366	Electronic components.....	3,216	3,181	3,087	3,050	2,973	2,870	3,457	3,159	3,156	3,293	2,974	26,556	18,735	16,793	
367	Transportation equipment.....	20,434	19,130	18,961	18,533	17,338	16,938	21,922	20,374	20,355	22,032	17,706	155,535	115,624	93,560	
37	Motor vehicles and parts.....	13,406	12,257	11,987	11,285	10,309	10,343	14,427	13,065	12,664	12,912	11,236	9,980	74,264	64,584	
372,6	Aircraft, missiles, and parts.....	4,860	4,734	4,827	5,018	4,247	4,361	5,220	4,820	4,891	5,325	4,354	3,738	28,348	24,537	
3731	Shipbuilding and military tank vehicles.....	1,191	1,155	1,175	1,141	1,161	1,103	1,231	1,159	1,178	1,151	1,068	990	6,777	6,301	
3795	Instruments and related products.....	4,302	4,208	4,030	4,136	4,129	4,039	4,600	4,148	3,979	4,327	4,027	3,641	24,722	22,290	
38	Scientific and engineering.....	2,510	2,404	2,245	2,245	2,237	2,253	2,706	2,399	2,356	2,591	2,325	2,143	14,598	13,107	
381-4	Photographic goods.....	1,497	1,494	1,377	1,350	1,319	1,416	1,591	1,451	1,324	1,411	1,413	1,183	8,373	7,625	
25	All other durable goods industries.....	8,413	8,356	8,685	8,185	8,504	8,249	8,911	8,521	8,762	8,534	8,177	6,971	49,876	45,561	
Nondurable goods industries:																
20	Food and kindred products.....	22,576	21,911	22,700	21,930	22,121	22,476	23,084	21,749	22,312	22,860	22,348	20,901	133,254	122,766	
201	Meat products.....	5,497	5,233	5,243	5,125	5,182	5,183	5,420	5,353	5,213	5,182	5,243	5,241	31,452	27,639	
208	Beverages.....	3,169	3,007	3,052	2,851	2,907	2,971	3,571	3,121	3,075	2,864	2,571	2,400	16,252	14,828	
209	Fats and oils.....	1,639	1,712	1,799	1,783	1,660	1,790	1,636	1,668	1,812	1,804	1,762	9,137	9,137	8,232	
203-6,9	All other foods.....	9,241	8,869	9,125	9,088	9,233	9,476	1,126	1,046	1,101	1,060	1,037	5,510	5,510	5,227	
21	Textile mill products.....	4,431	4,350	4,195	4,235	4,167	4,078	4,740	4,409	4,225	4,558	4,130	6,428	5,849	5,371	
22	Textile mill products.....	4,431	4,350	4,195	4,235	4,167	4,078	4,740	4,409	4,225	4,558	4,130	6,428	5,849	5,371	
26	Paper and allied products.....	6,384	6,426	6,536	6,525	6,575	6,729	6,711	6,553	6,587	6,799	6,679	39,365	35,634	32,597	
261-3	Pulp, paper, etc.....	2,811	2,854	2,829	2,890	2,847	2,742	2,899	2,951	2,899	3,006	2,898	17,318	15,968	14,318	
265	Paperboard containers.....	1,687	1,640	1,630	1,620	1,650	1,728	1,759	1,663	1,670	1,695	1,684	12,138	10,457	9,657	
266	All other paper products.....	1,886	1,912	1,874	1,816	1,875	1,958	1,851	1,851	1,851	1,851	1,851	12,138	10,457	9,657	
28	Chemical and allied products.....	15,199	14,875	14,704	15,166	14,911	14,865	16,051	15,413	15,413	16,427	15,250	14,074	84,464	84,464	
281,6	Industrial chemicals.....	5,381	5,381	5,298	5,490	5,379	5,189	5,655	5,559	5,707	6,116	5,604	4,979	33,620	30,487	
283,4	Drugs, soap, and toiletries.....	3,735	3,644	3,574	3,783	3,893	3,688	3,884	3,400	3,491	4,031	3,952	3,781	22,539	21,347	
29	Petroleum and coal products.....	16,321	16,404	15,969	16,153	16,747	16,883	16,455	16,236	15,723	16,109	17,091	16,866	98,480	86,963	
30	Rubber and plastic products.....	4,036	3,850	3,962	3,766	3,730	3,924	4,187	3,915	4,133	4,017	3,869	3,617	23,738	24,321	
23	All other nondurable goods industries.....	12,390	11,993	12,003	11,886	11,920	11,674	12,342	11,430	11,708	11,854	11,992	10,495	69,821	63,162	

^PPreliminary.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories as of the end of the period and are not adjusted for trading-day variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods Industries--Household furniture: Kitchen articles and pottery, cutlery, handtools, and hardware; household appliances; radio and TV, electronic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods Industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), nonferrous metal products, and miscellaneous machinery and equipment.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the MA-175, Shipments to Federal Government Agencies (formerly Shipments of Defense-Oriented Industries), for the specified industries.

Table 2. VALUE OF MANUFACTURES: NEW ORDERS, FOR INDUSTRIES GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	Seasonally adjusted					Not seasonally adjusted					Year to date		
		May 1961	April 1961	March 1961	Feb. 1961	Jan. 1961	Line 1961	May 1961	April 1961	March 1961	Feb. 1961	Jan. 1961	1961	1960
TOTALS														
	All manufacturing industries.....	170,888	166,586	177,971	182,987	178,473	177,967	168,932	177,969	182,987	187,132	1,057,489	914,242	
	Manufacturing industries.....	151,557	146,268	152,843	158,155	157,598	157,553	148,862	157,553	162,862	165,654	905,808	802,244	
	excluding transportation.....	89,792	90,182	87,101	88,111	87,126	93,726	88,712	93,726	88,712	85,194	542,261	483,145	
	Manufacturing industries with unfilled orders.....	88,466	87,180	86,729	85,946	85,288	93,442	87,680	93,442	87,680	84,159	511,748	408,245	
	Durable goods with unfilled orders.....	72,810	73,110	71,939	71,673	70,675	76,469	71,802	76,469	71,802	71,123	427,406	384,209	
	Non-durable goods industries.....	82,402	81,176	80,611	81,141	81,116	84,525	80,922	84,525	80,922	76,974	499,215	404,411	
	Industries with unfilled orders.....	16,962	17,052	16,781	16,936	16,114	17,217	16,910	17,217	16,910	15,428	101,024	83,447	
	Industries without unfilled orders.....	65,440	64,126	63,830	64,206	64,983	67,288	64,012	67,288	64,012	61,485	389,513	355,554	
MARKET CATEGORIES														
	Home goods and apparel.....	12,732	12,083	12,165	12,256	12,009	11,326	11,486	11,326	11,486	10,459	72,445	67,441	
	Consumer staples.....	29,178	28,488	28,476	28,581	28,508	29,816	27,802	29,816	27,802	26,887	171,178	157,241	
	Consumer durables.....	25,183	25,365	24,834	24,727	24,726	26,791	24,852	26,791	24,852	25,517	156,603	134,473	
	except automobiles.....	15,106	14,258	13,907	13,962	13,881	16,211	15,040	16,211	15,040	14,468	85,572	63,449	
	Automotive equipment.....	13,309	12,755	13,134	13,401	12,869	14,416	13,239	14,416	13,239	10,914	77,465	64,207	
	Construction materials, supplies, and intermediate products.....	75,280	76,691	73,667	75,082	72,611	77,607	76,185	77,607	76,185	71,809	458,862	414,475	
SUPPLEMENTARY SERIES ²														
	Household durable goods industries.....	5,621	5,519	5,473	5,675	5,484	5,843	4,981	5,843	4,981	4,904	32,688	26,637	
	Capital goods industries.....	28,375	29,248	29,367	27,436	29,383	29,704	27,903	29,704	27,903	28,460	171,391	161,392	
	Non-durable.....	5,138	5,381	5,376	5,451	5,393	4,620	5,106	4,620	5,106	4,651	26,380	24,258	
INDUSTRY GROUPS AND INDUSTRIES														
	Durable goods industries:	4,209	4,217	4,110	4,233	4,070	4,546	4,295	4,546	4,295	3,517	24,492	21,859	
	Stone, clay, and glass.....	11,267	11,699	11,739	11,872	10,617	11,022	11,802	11,022	11,802	10,617	73,173	66,767	
	Primary metals.....	6,001	6,076	6,030	6,151	5,911	6,065	5,966	6,065	5,966	5,509	38,213	35,963	
	Nonferrous and other primary metal products.....	4,223	4,612	4,475	4,580	4,223	4,374	4,673	4,374	4,673	4,369	28,184	30,450	
	Fabricated metal products.....	17,210	17,082	16,740	15,876	17,129	18,729	16,635	18,729	16,635	16,806	105,450	89,346	
	Machinery, except electrical.....	1,439	1,425	1,461	1,418	1,481	1,462	1,441	1,462	1,441	1,414	6,166	5,328	
	Engines and turbines.....	3,491	3,523	3,706	3,455	3,645	3,531	3,440	3,531	3,440	3,520	21,859	17,896	
	Construction, mining, and material-handling equipment.....	1,255	1,620	1,771	1,886	1,429	1,397	1,568	1,397	1,568	1,352	8,880	7,710	
	General industrial machinery.....	1,620	1,620	1,620	1,620	1,620	1,620	1,620	1,620	1,620	1,620	1,620	1,620	

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURES' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)											
		Seasonally adjusted ¹						Not seasonally adjusted ²					
		June 1981P	May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981	June 1981P	May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981
	INDUSTRY GROUPS AND INDUSTRIES--												
	Continued												
	Durable goods industries--												
	Continued												
36	Electrical machinery.....	12,593	11,721	11,960	11,666	11,290	11,416	12,948	11,570	11,825	12,231	12,067	11,215
361, 2	Electric, electronic, and optical equipment and instruments.....												
363	Industrial apparatus.....	1,896	2,127	1,748	1,988	1,819	1,991	2,013	2,059	1,930	2,114	2,039	1,953
365	Household appliances.....	1,184	1,131	1,165	1,102	1,167	1,153	1,302	1,256	1,153	1,184	1,178	1,124
365	Radio and TV.....	1,132	1,111	1,105	1,096	1,096	1,133	1,161	1,156	1,153	1,183	1,189	1,179
366	Communication equipment.....	2,291	2,249	2,537	2,312	2,966	3,333	3,761	3,392	3,395	3,670	3,157	3,500
37	Transportation equipment.....	2,291	2,249	2,537	2,312	2,966	3,333	3,761	3,392	3,395	3,670	3,157	3,500
37, b	Transportation equipment.....	19,331	20,093	18,988	19,428	18,633	17,825	20,414	19,960	20,105	-0,758	17,758	17,479
372, b	Aircraft, missiles, and parts.....	4,223	5,803	3,777	6,324	5,118	5,111	4,360	5,160	4,381	5,576	4,105	5,395
3731	Shipbuilding and military tank vehicles.....	913	1,085	2,046	793	1,615	1,388	853	816	2,185	1,134	1,384	1,252
3795	Iron, steel, and related products.....	4,395	4,293	3,914	4,070	4,200	4,060	4,748	4,165	3,891	4,276	4,058	3,669
24	All other durable goods industries.....	8,424	8,342	8,773	8,408	8,739	8,439	8,889	8,580	9,111	8,830	8,440	7,170
25													
29													
	INDUSTRIES--												
	Continued												
	Durable goods industries--												
	Continued												
36	Electrical machinery.....	12,593	11,721	11,960	11,666	11,290	11,416	12,948	11,570	11,825	12,231	12,067	11,215
361, 2	Electric, electronic, and optical equipment and instruments.....												
363	Industrial apparatus.....	1,896	2,127	1,748	1,988	1,819	1,991	2,013	2,059	1,930	2,114	2,039	1,953
365	Household appliances.....	1,184	1,131	1,165	1,102	1,167	1,153	1,302	1,256	1,153	1,184	1,178	1,124
365	Radio and TV.....	1,132	1,111	1,105	1,096	1,096	1,133	1,161	1,156	1,153	1,183	1,189	1,179
366	Communication equipment.....	2,291	2,249	2,537	2,312	2,966	3,333	3,761	3,392	3,395	3,670	3,157	3,500
37	Transportation equipment.....	2,291	2,249	2,537	2,312	2,966	3,333	3,761	3,392	3,395	3,670	3,157	3,500
37, b	Transportation equipment.....	19,331	20,093	18,988	19,428	18,633	17,825	20,414	19,960	20,105	-0,758	17,758	17,479
372, b	Aircraft, missiles, and parts.....	4,223	5,803	3,777	6,324	5,118	5,111	4,360	5,160	4,381	5,576	4,105	5,395
3731	Shipbuilding and military tank vehicles.....	913	1,085	2,046	793	1,615	1,388	853	816	2,185	1,134	1,384	1,252
3795	Iron, steel, and related products.....	4,395	4,293	3,914	4,070	4,200	4,060	4,748	4,165	3,891	4,276	4,058	3,669
24	All other durable goods industries.....	8,424	8,342	8,773	8,408	8,739	8,439	8,889	8,580	9,111	8,830	8,440	7,170
25													
29													

Preliminary.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day and calendar-month variations.

¹The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods: industries--household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; optical goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense industries--Comparable to the previous nondefense machinery and equipment and machine shops; electrical machinery (excluding household appliances, radio and TV, and electronic components),

Nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filled by large defense contractors in the following industries: aerospace, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the WA-17, Shipments to Federal Government Agencies (formerly Shipments of defense-oriented industries), for the specified industries.

Table 3. VALUE OF MANUFACTURES' INFLUENT ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry group	(millions of dollars)											
		Seasonally adjusted						Not seasonally adjusted ¹					
		June 1981 ²	May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981	June 1981	May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981
		Last 3 months (a year ago)											
TOTALS													
336	All manufacturing industries.....	376,439	376,508	374,984	373,897	377,485	370,366	376,960	378,411	378,847	378,444	375,197	375,260
337	Manufacturing industries excluding transportation.....	210,644	209,608	208,760	207,405	209,827	206,617	211,786	211,732	212,080	210,188	208,873	208,435
338	Durable goods industries.....	314,970	314,934	313,437	312,398	310,828	309,695	315,455	316,736	317,362	315,727	314,017	311,769
339	Nondurable goods industries.....	11,469	11,574	11,546	11,498	11,119	11,879	11,505	11,675	11,565	11,716	11,175	11,911
MARKET CATEGORIES													
340	Durable goods and apparel.....	4,876	4,609	4,782	4,664	4,967	4,151	4,990	4,710	4,857	4,533	4,320	4,315
341	Capital goods, except automotive.....	191,394	191,990	191,379	191,324	190,058	189,466	191,518	192,595	193,134	192,302	191,486	190,731
342	Construction materials, supplies, and intermediate products.....	17,627	17,137	17,195	17,409	17,378	17,194	17,825	17,401	17,437	17,504	17,368	17,335
343	Other materials, supplies, and intermediate products.....	112,542	112,772	110,478	110,206	110,170	109,572	112,637	113,705	113,420	112,603	112,317	110,459
SUPPLEMENTARY SERIES ²													
350	Household durable goods industries.....	3,760	3,511	3,684	3,678	3,427	3,394	3,911	3,644	3,768	3,484	3,294	2,834
351	Capital goods industries.....	222,543	222,518	221,248	220,323	219,374	218,661	222,139	222,429	222,892	221,552	221,103	220,417
352	Construction materials, supplies, and intermediate products.....	18,608	18,608	18,608	18,608	18,608	18,608	18,608	18,608	18,608	18,608	18,608	18,608
353	Defense.....	74,566	73,882	73,410	72,398	71,111	69,331	74,602	74,189	73,099	72,773	72,468	70,710
INDUSTRY GROUPS AND INDUSTRIES													
Durable goods industries:													
32	Stone, clay, and glass.....	2,303	2,260	2,306	2,288	2,276	2,260	2,363	2,361	2,335	2,332	2,376	2,335
33	Primary metals.....	28,547	29,080	29,095	28,955	28,536	28,561	29,148	30,264	30,730	30,661	29,818	29,019
331	Blas furnaces, steel mills.....	16,860	17,028	17,161	16,976	16,524	16,469	17,433	17,582	18,380	18,026	17,400	16,934
333-6.9	Nonferrous and other primary metal products.....	8,418	8,712	8,572	8,557	8,499	8,191	8,502	8,912	8,922	9,089	8,822	8,619
34	Fabricated metal products.....	30,380	29,975	29,964	30,134	30,127	30,061	30,326	30,028	30,355	30,321	30,821	8,389
35	Machinery, except electrical.....	75,752	75,580	75,270	74,802	74,181	73,478	75,901	75,620	75,814	75,220	75,434	72,064
351	Engines and turbines.....	18,425	18,391	18,418	18,241	18,207	18,103	18,142	18,118	18,340	18,263	18,273	18,417
353	Construction, mining, and material-handling equipment.....	10,632	10,448	10,243	9,760	9,406	9,213	10,632	10,463	10,507	9,908	9,522	9,199
354	General industrial machinery.....	6,285	6,663	6,886	7,095	7,114	7,200	6,267	6,643	6,872	7,013	7,108	7,255
356	General industrial machinery.....	6,231	6,623	6,464	6,304	6,293	6,346	6,317	6,289	6,531	6,339	6,351	6,344

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

[illegible]

Table 4. U.S. COMMERCE DEPARTMENT'S INDEXES OF DURABLE AND NONDURABLE GOODS IN 1955

(Millions of dollars)

SIC	Industry group	Seasonally adjusted					Not seasonally adjusted				
		1954	1951	1951	1954	1955	1954	1951	1951	1954	1955
TOTAL											
200	All manufacturing industries...	266,460	167,000	167,000	266,460	275,000	275,000	167,000	167,000	275,000	275,000
210	Food processing industries...	119,728	73,908	73,908	119,728	121,100	121,100	73,908	73,908	121,100	121,100
220	Textile, apparel, and leather...	164,960	103,092	103,092	164,960	166,900	166,900	103,092	103,092	166,900	166,900
230	Chemical and allied products...	178,690	117,110	117,110	178,690	180,100	180,100	117,110	117,110	180,100	180,100
240	Metals and metal products...	164,950	103,090	103,090	164,950	166,900	166,900	103,090	103,090	166,900	166,900
250	Transportation equipment...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
260	Electric, electronic, and optical...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
270	Instrumental products...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
280	Other durable goods...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
290	Non-durable goods...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
MANUFACTURING INDUSTRIES											
300	All manufacturing industries...	266,460	167,000	167,000	266,460	275,000	275,000	167,000	167,000	275,000	275,000
310	Food processing industries...	119,728	73,908	73,908	119,728	121,100	121,100	73,908	73,908	121,100	121,100
320	Textile, apparel, and leather...	164,960	103,092	103,092	164,960	166,900	166,900	103,092	103,092	166,900	166,900
330	Chemical and allied products...	178,690	117,110	117,110	178,690	180,100	180,100	117,110	117,110	180,100	180,100
340	Metals and metal products...	164,950	103,090	103,090	164,950	166,900	166,900	103,090	103,090	166,900	166,900
350	Transportation equipment...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
360	Electric, electronic, and optical...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
370	Instrumental products...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
380	Other durable goods...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
390	Non-durable goods...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
NONMANUFACTURING INDUSTRIES											
400	Services...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
410	Transportation...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
420	Communication...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
430	Public utilities...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
440	Government...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
450	Real estate and rental...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
460	Finance, insurance, and other...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
470	Wholesale trade...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
480	Retail trade...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
490	Food and kindred stores...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
500	Business equipment...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
510	Health and personal services...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
520	Recreation and amusements...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
530	Education...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
540	Religious, social, and fraternal...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
550	Other services...	11,150	6,800	6,800	11,150	11,150	11,150	6,800	6,800	11,150	11,150
SUPPLEMENTARY SERIES*											
100	Household durable goods industries...	10,171	10,171	10,171	10,171	10,171	10,171	10,171	10,171	10,171	10,171
200	Capital goods industries...	85,162	81,200	81,200	85,162	85,162	85,162	81,200	81,200	85,162	85,162
300	Non-durable goods...	69,489	69,489	69,489	69,489	69,489	69,489	69,489	69,489	69,489	69,489
400	Services...	12,657	12,657	12,657	12,657	12,657	12,657	12,657	12,657	12,657	12,657
INDUSTRY GROUPS AND INDUSTRIES											
300	Durable goods industries...	6,620	6,620	6,620	6,620	6,620	6,620	6,620	6,620	6,620	6,620
310	Food, drink, and tobacco products...	2,172	2,172	2,172	2,172	2,172	2,172	2,172	2,172	2,172	2,172
320	Textile, apparel, and leather...	12,147	12,147	12,147	12,147	12,147	12,147	12,147	12,147	12,147	12,147
330	Chemical and allied products...	9,708	9,708	9,708	9,708	9,708	9,708	9,708	9,708	9,708	9,708
340	Metals and metal products...	19,585	19,585	19,585	19,585	19,585	19,585	19,585	19,585	19,585	19,585
350	Transportation equipment...	40,079	40,079	40,079	40,079	40,079	40,079	40,079	40,079	40,079	40,079
360	Electric, electronic, and optical...	2,726	2,726	2,726	2,726	2,726	2,726	2,726	2,726	2,726	2,726
370	Instrumental products...	8,407	8,407	8,407	8,407	8,407	8,407	8,407	8,407	8,407	8,407
380	Other durable goods...	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600
390	Non-durable goods...	3,806	3,806	3,806	3,806	3,806	3,806	3,806	3,806	3,806	3,806

See footnotes at end of table.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Billions of dollars)

SIC	Industry group	Seasonally adjusted					Not seasonally adjusted ¹					
		May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981	May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981	Last 3 months (a year ago)
	INDUSTRY GROUPS AND INDUSTRIES--Continued											
	Durable goods industries--Continued											
36	Electric machinery, except household appliances.....	25,577	25,457	25,589	25,057	25,083	26,058	26,111	25,986	25,227	26,490	26,612
361,2	Electric transmission and distribution equipment.....	4,428	4,402	4,263	4,253	4,200	4,510	4,520	4,475	4,277	4,269	4,298
363	Household appliances.....	1,933	1,926	1,905	1,889	1,861	2,037	2,073	2,039	1,936	1,844	2,050
366	Communication equipment.....	8,900	8,835	8,774	8,899	8,763	9,516	9,595	9,513	9,378	9,214	9,584
367	Electronic components.....	4,741	4,741	4,560	4,596	4,562	4,817	4,798	4,736	4,593	4,500	4,493
37	Transportation equipment.....	38,547	38,305	38,111	37,810	37,623	38,182	38,478	38,460	38,457	37,650	36,054
371	Motor vehicles and parts.....	9,251	9,376	9,489	9,568	9,612	9,013	9,295	9,452	9,696	9,829	9,610
372,6	Aircraft, missiles, and parts.....	24,740	24,421	24,266	24,001	23,750	24,078	24,566	24,482	24,337	23,490	24,084
373,6	Trucking and military tank vehicles.....	2,647	2,647	2,612	2,555	2,382	2,671	2,726	2,596	2,571	2,346	2,388
3795	Instruments and related products.....	9,665	9,581	9,380	9,372	9,330	9,833	9,824	9,723	9,471	9,376	9,154
38	Scientific and engineering.....	6,903	6,748	6,593	6,380	6,243	6,985	6,941	6,812	6,640	6,518	6,388
381-4	Photographic goods.....	2,252	2,267	2,259	2,244	2,269	2,226	2,358	2,338	2,291	2,230	2,237
386	Other durable goods industries.....	14,477	14,568	14,352	14,213	14,075	14,583	14,677	14,566	14,458	14,406	14,032
39	All other durable goods industries.....											
	Non-durable goods industries:											
20	Food and kindred products.....	21,730	22,114	22,055	22,237	22,074	20,850	21,276	21,410	21,977	22,343	20,191
201	Beverages.....	3,772	3,797	3,843	3,909	3,812	3,681	3,820	3,810	4,010	3,914	3,802
208	Fats and oils.....	1,608	1,787	1,734	1,792	1,810	1,962	1,723	1,795	1,984	2,025	1,739
207	All other foods.....	12,363	12,551	12,411	12,476	12,386	11,623	11,672	11,765	11,984	12,386	10,790
21	Tobacco products.....	3,617	3,699	3,643	3,689	3,604	3,467	3,592	3,688	3,828	3,946	3,339
22	Textile mill products.....	6,589	6,562	6,345	6,518	6,235	6,439	6,733	6,725	6,662	6,646	6,377
26	Chemical and allied products.....	3,020	2,983	2,972	2,993	2,918	3,074	3,050	3,016	2,992	2,968	2,828
261-3	Pulp, paper, etc. products.....	2,262	2,204	2,212	2,188	2,136	2,219	2,252	2,240	2,171	2,101	2,047
265	Paperboard containers.....	3,108	3,037	3,059	3,126	3,099	3,207	3,173	3,146	3,067	3,065	2,963
264	All other paper containers.....	20,210	20,029	19,490	19,488	19,201	18,879	19,884	20,011	19,710	19,221	18,937
28	Chemicals and allied products.....	7,006	6,880	6,719	6,691	6,550	6,846	6,880	6,716	6,651	6,587	6,473
281,6	Industrial chemicals, except drugs, soap, and toiletries.....	5,828	5,835	5,738	5,819	5,780	5,956	5,934	5,902	5,777	5,706	5,680
283,4	Drugs, soap, and toiletries.....	10,108	10,278	9,932	9,885	9,117	9,869	10,204	9,841	9,197	8,795	8,527
30	Petroleum and coal products.....	5,632	5,616	5,518	5,539	5,421	5,659	5,706	5,766	5,673	5,605	5,460
33	Rubber and plastic products, n.e.c.....	14,899	15,103	14,819	14,656	14,545	15,425	15,653	15,059	14,553	14,386	14,733
27	All other nondurable goods industries.....											
31	Textiles.....											

¹ Preliminary.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

1. **Household furniture, kitchen articles and pottery.** Culinary, handtools, and hardware: household appliances, radio and TV, optical aids, watches, and miscellaneous personal goods.

2. **Capital goods industries--Comparable to the previous products' capital goods and the defense products (old series) categories.** Capital goods industries--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

3. **Products based on separate reports on defense work filled by large defense contractors in the following industries:** Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the 40-47's, Shipments to Federal Government Agencies (formerly Shipments of Defense-Related Industries), for the specified industries.

Table 5. VALUE OF MANUFACTURES, INVENTORIES, IN STOCK OF FABRICATION, BY INDUSTRY GROUP
(Millions of dollars)

Industry	Seasonally adjusted					Current 6 months					Not seasonally adjusted				
	June 1981	May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981	Time length	April 1981	March 1981	Feb. 1981	Jan. 1981	June 1981	May 1981	April 1981	1981
TOTALS	269,275	269,260	267,096	265,556	266,449	241,775	269,402	270,489	267,616	267,608	266,453	282,735	276,913	276,418	532,182
All manufacturing industries.....	178,099	177,635	177,113	176,423	176,999	172,009	176,136	176,159	174,991	174,878	174,255	176,255	170,724	172,300	328,418
Durable goods industries.....	6,620	6,509	6,499	6,498	6,499	6,499	6,499	6,499	6,499	6,499	6,499	6,499	6,499	6,499	6,499
Stone, clay, and glass products.....	23,177	23,168	23,167	23,166	23,167	23,167	23,167	23,167	23,167	23,167	23,167	23,167	23,167	23,167	23,167
Primary metals.....	40,079	40,079	40,079	40,079	40,079	40,079	40,079	40,079	40,079	40,079	40,079	40,079	40,079	40,079	40,079
Electrical, electronic, and other machinery.....	25,527	25,527	25,527	25,527	25,527	25,527	25,527	25,527	25,527	25,527	25,527	25,527	25,527	25,527	25,527
Transportation equipment.....	38,427	38,427	38,427	38,427	38,427	38,427	38,427	38,427	38,427	38,427	38,427	38,427	38,427	38,427	38,427
Instruments and related products.....	16,427	16,427	16,427	16,427	16,427	16,427	16,427	16,427	16,427	16,427	16,427	16,427	16,427	16,427	16,427
Non-durable goods industries.....	19,176	19,176	19,176	19,176	19,176	19,176	19,176	19,176	19,176	19,176	19,176	19,176	19,176	19,176	19,176
Chemicals and allied products.....	20,108	20,108	20,108	20,108	20,108	20,108	20,108	20,108	20,108	20,108	20,108	20,108	20,108	20,108	20,108
Rubber and plastics products, n.e.c.....	5,633	5,633	5,633	5,633	5,633	5,633	5,633	5,633	5,633	5,633	5,633	5,633	5,633	5,633	5,633
All other non-durable goods industries.....	55,702	55,702	55,702	55,702	55,702	55,702	55,702	55,702	55,702	55,702	55,702	55,702	55,702	55,702	55,702
All manufacturing industries.....	91,889	91,889	91,889	91,889	91,889	91,889	91,889	91,889	91,889	91,889	91,889	91,889	91,889	91,889	91,889
Durable goods industries.....	55,653	55,653	55,653	55,653	55,653	55,653	55,653	55,653	55,653	55,653	55,653	55,653	55,653	55,653	55,653
Stone, clay, and glass products.....	2,667	2,667	2,667	2,667	2,667	2,667	2,667	2,667	2,667	2,667	2,667	2,667	2,667	2,667	2,667
Primary metals.....	7,146	7,146	7,146	7,146	7,146	7,146	7,146	7,146	7,146	7,146	7,146	7,146	7,146	7,146	7,146
Non-durable goods industries.....	11,171	11,171	11,171	11,171	11,171	11,171	11,171	11,171	11,171	11,171	11,171	11,171	11,171	11,171	11,171
Electrical machinery.....	7,990	7,990	7,990	7,990	7,990	7,990	7,990	7,990	7,990	7,990	7,990	7,990	7,990	7,990	7,990
Transportation equipment.....	2,964	2,964	2,964	2,964	2,964	2,964	2,964	2,964	2,964	2,964	2,964	2,964	2,964	2,964	2,964
Instruments and related products.....	5,575	5,575	5,575	5,575	5,575	5,575	5,575	5,575	5,575	5,575	5,575	5,575	5,575	5,575	5,575
All other durable goods industries.....	36,236	36,236	36,236	36,236	36,236	36,236	36,236	36,236	36,236	36,236	36,236	36,236	36,236	36,236	36,236
Chemicals and allied products.....	7,997	7,997	7,997	7,997	7,997	7,997	7,997	7,997	7,997	7,997	7,997	7,997	7,997	7,997	7,997
Rubber and plastics products, n.e.c.....	2,576	2,576	2,576	2,576	2,576	2,576	2,576	2,576	2,576	2,576	2,576	2,576	2,576	2,576	2,576
All other non-durable goods industries.....	21,717	21,717	21,717	21,717	21,717	21,717	21,717	21,717	21,717	21,717	21,717	21,717	21,717	21,717	21,717
WORK IN PROGRESS	96,240	96,240	96,240	96,240	96,240	96,240	96,240	96,240	96,240	96,240	96,240	96,240	96,240	96,240	96,240
All manufacturing industries.....	81,462	81,462	81,462	81,462	81,462	81,462	81,462	81,462	81,462	81,462	81,462	81,462	81,462	81,462	81,462
Durable goods industries.....	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111
Stone, clay, and glass products.....	7,960	7,960	7,960	7,960	7,960	7,960	7,960	7,960	7,960	7,960	7,960	7,960	7,960	7,960	7,960
Primary metals.....	17,887	17,887	17,887	17,887	17,887	17,887	17,887	17,887	17,887	17,887	17,887	17,887	17,887	17,887	17,887
Non-durable goods industries.....	24,910	24,910	24,910	24,910	24,910	24,910	24,910	24,910	24,910	24,910	24,910	24,910	24,910	24,910	24,910
Transportation equipment.....	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167	4,167
Instruments and related products.....	3,521	3,521	3,521	3,521	3,521	3,521	3,521	3,521	3,521	3,521	3,521	3,521	3,521	3,521	3,521
All other durable goods industries.....	14,784	14,784	14,784	14,784	14,784	14,784	14,784	14,784	14,784	14,784	14,784	14,784	14,784	14,784	14,784
Chemicals and allied products.....	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700
Rubber and plastics products, n.e.c.....	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023
All other non-durable goods industries.....	8,291	8,291	8,291	8,291	8,291	8,291	8,291	8,291	8,291	8,291	8,291	8,291	8,291	8,291	8,291
FINISHED GOODS	80,392	80,392	80,392	80,392	80,392	80,392	80,392	80,392	80,392	80,392	80,392	80,392	80,392	80,392	80,392
All manufacturing industries.....	40,984	40,984	40,984	40,984	40,984	40,984	40,984	40,984	40,984	40,984	40,984	40,984	40,984	40,984	40,984
Durable goods industries.....	3,048	3,048	3,048	3,048	3,048	3,048	3,048	3,048	3,048	3,048	3,048	3,048	3,048	3,048	3,048
Stone, clay, and glass products.....	5,275	5,275	5,275	5,275	5,275	5,275	5,275	5,275	5,275	5,275	5,275	5,275	5,275	5,275	5,275
Primary metals.....	11,221	11,221	11,221	11,221	11,221	11,221	11,221	11,221	11,221	11,221	11,221	11,221	11,221	11,221	11,221
Non-durable goods industries.....	4,806	4,806	4,806	4,806	4,806	4,806	4,806	4,806	4,806	4,806	4,806	4,806	4,806	4,806	4,806
Transportation equipment.....	3,941	3,941	3,941	3,941	3,941	3,941	3,941	3,941	3,941	3,941	3,941	3,941	3,941	3,941	3,941
Instruments and related products.....	5,181	5,181	5,181	5,181	5,181	5,181	5,181	5,181	5,181	5,181	5,181	5,181	5,181	5,181	5,181
All other durable goods industries.....	40,156	40,156	40,156	40,156	40,156	40,156	40,156	40,156	40,156	40,156	40,156	40,156	40,156	40,156	40,156
Chemicals and allied products.....	9,493	9,493	9,493	9,493	9,493	9,493	9,493	9,493	9,493	9,493	9,493	9,493	9,493	9,493	9,493
Rubber and plastics products, n.e.c.....	4,782	4,782	4,782	4,782	4,782	4,782	4,782	4,782	4,782	4,782	4,782	4,782	4,782	4,782	4,782
All other non-durable goods industries.....	23,617	23,617	23,617	23,617	23,617	23,617	23,617	23,617	23,617	23,617	23,617	23,617	23,617	23,617	23,617

Prerollery.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

Table 6. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS--MONTH-TO-MONTH AND LONG-TERM PERCENT CHANGES

(Based on seasonally adjusted data)

Item and industry group	Month-to-month						Revisions ¹		
	May-June 1981	April-May 1981	March-April 1981	Feb.-March 1981	Jan.-Feb. 1981	Dec. 1980-Jan. 1981	Year ago June 1980	Average monthly	
								June 1980 through May 1981	June 1976-1980
Shipments:									
All manufacturing industries.....	+2.0	+0.0	+1.0	+0.2	+0.6	+0.5	0.5	0.3	0.4
Durable goods industries.....	+2.1	+0.4	+1.5	+1.0	+1.1	-0.2	0.2	0.4	0.3
Nondurable goods industries.....	+2.0	-0.4	+0.5	-0.7	+0.0	+1.3	0.8	0.5	0.7
Inventories:									
All manufacturing industries.....	+0.0	+0.7	+0.4	+0.8	+1.0	+1.5	0.1	0.1	0.2
New orders:									
All manufacturing industries.....	+0.9	+0.5	+0.7	+0.2	+0.9	-0.9	0.3	0.4	0.3
Durable goods industries.....	+0.4	+1.1	+0.5	+1.5	+1.5	-2.7	0.3	0.6	0.4
Nondurable goods industries.....	+1.5	-0.3	+1.0	-1.1	+0.4	+1.1	0.7	0.5	0.7
Unfilled orders:									
Durable goods industries.....	+0.0	+0.5	+0.3	+0.5	+0.4	+0.3	0.2	0.1	0.1

- Represents zero.

¹The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences to the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio						Unfilled orders--shipments ratio ¹ (months' backlog)					
	June 1981 ^P	May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981	June 1981 ^P	May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981
All manufacturing industries.....	1.58	1.61	1.60	1.61	1.60	1.59	3.63	3.69	3.69	3.68	3.70	3.74
Durable goods industries.....	2.01	2.05	2.05	2.07	2.09	2.09	4.33	4.40	4.41	4.39	4.42	4.45
Stone, clay, and glass products.....	1.60	1.56	1.49	1.52	1.51	1.49	0.64	0.61	0.58	0.61	0.63	0.64
Primary metals.....	1.96	1.96	2.00	2.09	1.95	1.85	2.42	2.46	2.49	2.56	2.40	2.32
Fabricated metals.....	1.87	1.87	1.89	1.88	1.90	1.97	3.09	3.07	3.12	3.10	3.13	3.22
Machinery, except electrical.....	2.35	2.39	2.36	2.34	2.39	2.36	4.82	4.86	4.84	4.75	4.84	4.91
Electrical machinery.....	2.19	2.20	2.25	2.22	2.27	2.30	4.29	4.24	4.32	4.30	4.36	4.44
Transportation equipment.....	1.89	2.01	2.02	2.07	2.18	2.22	10.20	11.11	11.07	10.54	11.38	11.44
Instruments and related products.....	2.25	2.29	2.38	2.27	2.27	2.31	1.64	1.66	1.71	1.70	1.71	1.74
Nondurable goods industries.....	1.11	1.13	1.11	1.12	1.09	1.08	0.67	0.69	0.67	0.66	0.67	0.67
Food and kindred products.....	0.96	1.01	0.97	1.01	1.00	0.98	(X)	(X)	(X)	(X)	(X)	(X)
Tobacco products.....	3.20	3.58	3.33	3.40	3.21	3.43	(X)	(X)	(X)	(X)	(X)	(X)
Textile mill products.....	1.48	1.51	1.56	1.54	1.57	1.58	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.31	1.28	1.26	1.27	1.25	1.29	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.33	1.35	1.33	1.29	1.29	1.27	(X)	(X)	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.62	0.63	0.62	0.61	0.54	0.50	(X)	(X)	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.40	1.46	1.43	1.47	1.48	1.36	(X)	(X)	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey provides broad-based monthly statistical data on economic conditions in the domestic manufacturing sector. It is designed to measure current industrial activity and to provide an indication of future trends. The data are used extensively by the executive branch of the Government in developing economic, fiscal, and monetary policy; by the Bureau of Economic Analysis (BEA) as components of the gross national product estimates; and by trade associations, corporate economists, and other members of the business community as an analytical tool in their assessment of the current and future economic condition of the country.

The M3 shipments and inventory data are comparable to the totals published in the Annual Survey of Manufactures (ASM). The ASM is a sample survey of approximately 70,000 manufacturing establishments drawn from a 5-year census of manufacturing universe of about 350,000 manufacturing establishments. In the ASM, each manufacturing location reports data on value of shipments, beginning and end-of-year inventories, as well as various other economic variables.

The monthly M3 estimates through 1980 are based on information obtained from approximately 4,500 reporting units and include most manufacturing companies with 1,000 or more employees. In addition, selected smaller companies are included to strengthen the sample coverage in individual industry categories. For firms which operate in a single M3 industry category, the reporting unit typically comprises all operations of the company. At the request of the Census Bureau, most large, diversified companies file separate reports for divisions which operate in different industrial areas.

Each company or reporting unit of a company in the survey is classified into 1 of 79 industry categories for which separate estimates are made based on the major activity of the reporting unit. Some reporting units include industry activities outside the M3 category in which they are classified. The survey methodology assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category.

The M3 series is periodically benchmarked to the Census of Manufactures and the ASM for shipments and inventories. The most recent benchmark included data for 1977 and 1978. Since benchmark data for unfilled orders are not available, levels are based upon the ratio of unfilled orders to shipments of reporting companies. In the 1977-1978 benchmark report, unfilled orders levels were revalued based on unfilled orders to shipments ratios of reporting companies in the monthly M3 survey; the MA-300, a one-time annual supplemental survey of multi-establishment companies; and the ASM for single-establishment companies.

MONTHLY ESTIMATING PROCEDURE

The monthly estimates of shipments, unfilled orders, and total inventories are derived for each industry category by

multiplying the industry estimate for the previous month by the percentage change from the previous month for companies reporting in the current month.

Though collected as a separate item, new orders are not calculated according to the standard ratio-estimate procedure. The reason for this is that not all companies report new orders and some that do report this item limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. New orders are, therefore, computed by adjusting the current month's shipments by the change in the backlog of unfilled orders. (New orders equal current month shipments plus current month unfilled orders minus prior month unfilled orders.) Thus, the estimate of new orders includes orders that are received and filled in the same month as well as new orders that have not yet been filled. Also included are the effects of cancellations and modifications on previously reported orders.

SEASONAL ADJUSTMENT

The monthly data on shipments, inventories, and unfilled orders are adjusted for seasonality at the most detailed level tabulated in the survey, using the X-11 variant of the Census Bureau's seasonal adjustment program. Data from January 1958 through December 1980 are included in the calculations of the factors used in this publication.

Seasonally adjusted industry aggregates are derived by adding seasonally adjusted components rather than by direct seasonal adjustment of the aggregates. New orders data are not independently seasonally adjusted but are derived at the most detailed levels from the seasonally adjusted shipments and the change in the seasonally adjusted unfilled orders and then similarly aggregated.

EXPLANATION OF TERMS

Value of Shipments—The shipments estimates published in the monthly survey are equivalent to value of shipments as reported in the ASM which are net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments is the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the shipbuilding industry, the value of shipments in a given time period varies considerably from the value of work done because of the long lead time between the input of the materials and labor and the delivery of the completed ship. For this industry and for aircraft and missile producers working under cost-plus contracts, the value of work done during the year is requested rather than the value of shipments.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and M3 industry

category levels since the products of some four-digit SIC industries are used as materials by other industries within the same industry aggregate. The significance of the duplication within the specific M3 industry categories varies depending on their four-digit industry composition. It is most pronounced in a few highly integrated industry areas, such as primary metals and motor vehicles and parts.

For multiunit companies, the M3 reports received each month typically are not plant reports but are company or divisional level reports that encompass groups of plants. The actual sales reported are usually net sales and receipts from customers and exclude the duplication of interplant transfers. The reported sales are used to calculate month-to-month changes which bring forward the plant-based shipments for the industry category as estimated in the ASM.

Inventories—In the monthly survey and in the ASM, respondents are asked to report their inventories at book values. Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the value of aggregate inventories for all plants in an industry is not precise.

There are also some inconsistencies between the M3 company or divisional reported inventory levels as compared with the ASM establishment reported levels. The change in the value of inventories, month-to-month as well as year-to-year, is considered to have greater significance and reliability.

Inventory data are requested from respondents by stage of fabrication, i.e., finished goods, work in process, and raw materials and supplies. However, the quality of these data is limited due to lower response rates and the inclusion of the same type of inventory under different stages of fabrication in the aggregate statistics.

New Orders Received and Unfilled Orders—Orders as reported in the monthly survey are net of cancellations received during the month on orders previously reported. They include orders received and filled during the month as well as orders received for future delivery. They also include the net sales value of contract changes which increase or decrease the sales value of the unfilled orders to which they relate. Orders are defined to include only those supported by binding legal documents such as signed contracts, letters of award, or letters of intent, although in some industries this definition may not be strictly applicable. In the case of letters of intent, the full amount of the sales value is included if the parties are in substantial agreement on the amount; otherwise, only the funds specifically authorized to be expended are included.

Unfilled orders include orders as defined above that have not been reflected as shipments. Generally, unfilled orders at the end of the reporting period are equal to unfilled orders at the beginning of the period plus net new orders received less net shipments.

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Manufacturers' Shipments, Inventories, and Orders

JULY 1981

M3-1(81)-7

For Wire Transmission 3 00 P.M. E.D.T. Tuesday, September 1, 1981



U.S. Department of Commerce
BUREAU OF THE CENSUS

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods increased in July by \$2.2 billion or 1.3 percent to \$173.1 billion the Department of Commerce, Bureau of the Census reported today.

The durable goods industries accounted for the total increase in new orders, going up \$2.2 billion or 2.5 percent to \$90.5 billion. Within durable goods, the aircraft and parts industries, which are quite volatile month to month, increased \$2.0 billion or 50 percent to \$6.1 billion, following a 30 percent decline in June. Without the aircraft industry the increase in durable goods orders was much less significant, going up only 0.2 percent.

New orders for primary metals in July were up \$1.1 billion or 9.8 percent to \$12.4 billion. Steel orders increased 7.0 percent after 2 months of declines, while nonferrous metal orders increased 13.9 percent. New orders in the shipbuilding industry, also volatile monthly, amounted to \$1.6 billion in July, nearly double the June orders of \$0.9 billion. The main declines in durable goods new orders occurred in the machinery and automotive industries. Electrical machinery orders declined \$0.5 billion or 4.3 percent and nonelectrical orders were down \$0.3 billion or 1.6 percent. For the motor vehicle and parts industry, new orders showed a \$1.0 billion decline. For the automotive assembly portion of this industry, new orders directly reflect shipments for the month since no backlog of orders is reported.

Within the capital goods categories, new orders for non-defense capital goods increased \$1.8 billion or 7.9 percent to \$25.1 billion. A large increase in the commercial aircraft industry was partially offset by the decline in machinery orders. New orders for defense capital goods increased 10.3 percent from \$5.0 billion in June to \$5.5 billion.

Shipments of manufactured goods in July declined \$1.2 billion or 0.7 percent to \$170.3 billion. Except for June when shipments were reported up \$2.4 percent, the change in value of shipments monthly has been relatively flat since October, increasing at rates of less than 1.0 percent per month. This is the first decline in shipments reported since a 1.5 percent decrease in May 1980.

Within the durable goods industries where shipments were off \$1.3 billion or 1.5 percent for the month, the motor vehicle and parts industry declined \$1.3 billion or 9.6 percent to \$12.1

billion.¹ Excluding that industry, durable goods shipments showed virtually no change in volume from June to July.

Shipments by the nondurable goods industries in July, valued at \$82.8 billion, similarly showed little change from last month. Decreases in the petroleum and food products industries were offset by increases in most of the other nondurable goods categories.

The value of the orders backlog of manufacturers in July was estimated at \$328.7 billion, up \$2.8 billion or 0.9 percent from June. This increase was a composite of small gains which were widespread throughout the durable goods industries. The unfilled orders to shipments ratio which peaked at 4.04 in May and June of 1980 has now dropped to 3.65.

The book value of manufacturers' inventories in July reached \$272.2 billion, up \$2.5 billion or 0.9 percent from June. Nearly all industries reported increases although petroleum inventories declined \$0.4 billion or 3.8 percent. The change in the value of inventories by stage of fabrication showed a somewhat different pattern from total inventories. Raw materials and supplies increased 1.7 percent for July while work in process and finished goods were up 0.3 percent and 0.7 percent, respectively.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for August is scheduled for release on September 22, 1981, and the full report is scheduled for release on October 1, 1981.

¹ Motor vehicle assembly plants close down for retooling, generally during July, August, and September, for the forthcoming model year. Year-to-year variations in both the timing and duration of the model changeover period are sufficiently great that the normal seasonal adjustment procedures do not adequately identify the seasonality during the period and may introduce substantial erratic movement. To compensate for this, the estimated seasonally adjusted monthly average for the quarter is used for the seasonally adjusted data in each of the 3 months. These seasonally adjusted data are recompiled each month as additional information is received. The seasonally unadjusted automotive data are not subject to any special estimating procedure.

[illegible]

Index	Seasonally adjusted					Yearly					Quarterly					Monthly					Not seasonally adjusted					
	1964					1965					1966					1967					1968					
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
TOTALS																										
All manufactures industries.....	109.3	109.4	109.5	109.6	109.7	109.8	109.9	110.0	110.1	110.2	110.3	110.4	110.5	110.6	110.7	110.8	110.9	111.0	111.1	111.2	111.3	111.4	111.5	111.6	111.7	111.8
Manufactures, value added.....	109.3	109.4	109.5	109.6	109.7	109.8	109.9	110.0	110.1	110.2	110.3	110.4	110.5	110.6	110.7	110.8	110.9	111.0	111.1	111.2	111.3	111.4	111.5	111.6	111.7	111.8
Manufactures, value added, constant prices.....	109.3	109.4	109.5	109.6	109.7	109.8	109.9	110.0	110.1	110.2	110.3	110.4	110.5	110.6	110.7	110.8	110.9	111.0	111.1	111.2	111.3	111.4	111.5	111.6	111.7	111.8
Manufactures, value added, constant prices, 1957=100.....	109.3	109.4	109.5	109.6	109.7	109.8	109.9	110.0	110.1	110.2	110.3	110.4	110.5	110.6	110.7	110.8	110.9	111.0	111.1	111.2	111.3	111.4	111.5	111.6	111.7	111.8
Manufactures, value added, constant prices, 1957=100, 12-month average.....	109.3	109.4	109.5	109.6	109.7	109.8	109.9	110.0	110.1	110.2	110.3	110.4	110.5	110.6	110.7	110.8	110.9	111.0	111.1	111.2	111.3	111.4	111.5	111.6	111.7	111.8
Manufactures, value added, constant prices, 1957=100, 3-month average.....	109.3	109.4	109.5	109.6	109.7	109.8	109.9	110.0	110.1	110.2	110.3	110.4	110.5	110.6	110.7	110.8	110.9	111.0	111.1	111.2	111.3	111.4	111.5	111.6	111.7	111.8
Manufactures, value added, constant prices, 1957=100, 12-month average, 1964=100.....	109.3	109.4	109.5	109.6	109.7	109.8	109.9	110.0	110.1	110.2	110.3	110.4	110.5	110.6	110.7	110.8	110.9	111.0	111.1	111.2	111.3	111.4	111.5	111.6	111.7	111.8
Manufactures, value added, constant prices, 1957=100, 3-month average, 1964=100.....	109.3	109.4	109.5	109.6	109.7	109.8	109.9	110.0	110.1	110.2	110.3	110.4	110.5	110.6	110.7	110.8	110.9	111.0	111.1	111.2	111.3	111.4	111.5	111.6	111.7	111.8
Manufactures, value added, constant prices, 1957=100, 12-month average, 1964=100, 12-month average.....	109.3	109.4	109.5	109.6	109.7	109.8	109.9	110.0	110.1	110.2	110.3	110.4	110.5	110.6	110.7	110.8	110.9	111.0	111.1	111.2	111.3	111.4	111.5	111.6	111.7	111.8
Manufactures, value added, constant prices, 1957=100, 3-month average, 1964=100, 3-month average.....	109.3	109.4	109.5	109.6	109.7	109.8	109.9	110.0	110.1	110.2	110.3	110.4	110.5	110.6	110.7	110.8	110.9	111.0	111.1	111.2	111.3	111.4	111.5	111.6	111.7	111.8
Manufactures, value added, constant prices, 1957=100, 12-month average, 1964=100, 12-month average, 1964=100.....	109.3	109.4	109.5	109.6	109.7	109.8	109.9	110.0	110.1	110.2	110.3	110.4														

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY CATEGORIES, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)											
		Seasonally adjusted			Quarterly			Monthly			Not seasonally adjusted ¹		
		Monthly			II			Last 4 months			Monthly		
		July 1981 ²	June 1981	May 1981	Apr. 1981	III 1981	I 1981	IV 1980	July 1981 ²	June 1981 ²	May 1981	Apr. 1981	Year to date
INDUSTRY GROUPS AND INDUSTRIES--Continued													
36	Durable goods and industries--Continued												
361,2	Electrical machinery.....	11,765	11,673	11,597	11,373	34,869	33,101	32,704	10,395	12,330	11,138	11,301	76,452
	Electrical transmission and distribution equipment and apparatus.....	1,914	1,948	1,916	1,874	5,318	5,604	5,679	1,679	2,094	1,937	1,900	13,187
363	Household appliances.....	1,094	1,182	1,156	1,156	3,459	3,198	3,146	1,071	1,287	1,115	1,143	7,010
365	Radio and TV.....	938	938	937	984	2,859	2,708	2,660	798	995	782	860	4,452
366	Electronic equipment.....	3,399	3,239	3,181	3,087	9,307	8,893	8,463	2,718	3,280	3,199	3,156	19,286
367	Electronic components.....	18,761	20,440	12,386	12,087	58,531	57,532	57,919	16,502	21,924	20,767	19,772	106,648
368	Telephone and communication equipment.....	12,098	13,378	12,257	11,987	37,627	32,737	33,086	10,267	14,397	13,665	12,664	86,499
371,6	Motor vehicles and parts.....	4,505	4,898	4,724	4,827	14,459	13,626	13,668	4,253	5,258	4,929	4,991	28,439
372	Aircraft, missiles, and parts.....	1,259	1,190	1,155	1,175	3,520	3,405	2,982	1,183	1,259	1,159	1,178	7,325
3731	Shipbuilding and military aircraft.....	4,266	4,257	4,208	4,030	12,495	12,305	12,036	3,856	4,552	4,148	3,979	25,669
3735	Instrumentation related products.....	2,381	2,459	2,404	2,345	7,108	6,877	6,887	2,151	2,999	2,856	2,856	15,015
381-4	Scientific and engineering products.....	1,558	1,496	1,494	1,577	4,367	4,385	4,262	1,453	1,591	1,551	1,524	9,968
386	Photographic goods.....	8,665	8,483	8,356	8,685	25,324	24,238	24,461	7,903	8,984	8,521	8,762	51,830
39	All other durable goods industries.....												53,444
Non-durable goods industries:													
20	Food and kindred products.....	22,480	22,676	21,931	22,700	62,007	66,728	66,435	20,409	23,171	21,549	22,312	154,427
201	Meat and poultry products.....	5,677	5,594	5,233	5,263	16,070	15,460	15,908	5,376	5,516	5,353	5,513	37,122
208	Beverages.....	3,009	3,065	3,007	3,052	9,124	8,638	8,139	3,139	3,475	3,121	3,075	19,267
207	Fats and oils.....	1,761	1,678	1,712	1,759	5,189	5,233	5,201	1,630	1,675	1,668	1,632	10,859
209	All other foods.....	8,151	8,416	8,712	8,088	27,581	27,887	28,016	7,617	7,254	7,666	7,601	45,192
21	Tobacco products.....	8,815	1,156	1,156	1,156	2,783	2,783	2,783	1,156	1,156	1,156	1,156	10,859
22	Textile mill products.....	4,397	4,467	4,350	4,195	13,017	12,681	12,460	4,172	4,755	4,409	4,253	19,931
23	Paper and allied products.....	6,534	6,392	6,426	6,536	19,354	19,179	18,728	6,174	6,700	6,536	6,487	35,432
261-3	Printed, paper, etc.....	2,822	2,797	2,854	2,829	8,480	8,479	8,275	2,974	2,400	2,531	2,699	41,194
265	Paperboard containers.....	1,799	1,797	1,640	1,630	4,468	4,468	4,412	1,382	1,743	1,630	1,630	10,400
265	All other paper products.....	1,799	1,797	1,640	1,630	4,468	4,468	4,412	1,382	1,743	1,630	1,630	10,400
28	Chemical and allied products.....	15,593	15,396	14,975	14,704	44,875	44,875	44,875	16,109	16,133	15,413	15,407	138,585
281,6	Industrial chemicals, except pigments.....	5,510	5,456	5,381	5,298	16,135	16,058	16,122	5,102	5,734	5,559	5,707	35,166
283,4	Drugs, soap, and toiletries.....	3,776	3,780	3,644	3,574	10,998	11,644	11,753	3,451	3,312	3,400	3,521	26,035
28	Petroleum and coal products.....	16,055	16,157	16,404	15,969	48,750	49,763	49,435	15,314	16,391	16,266	15,723	101,130
29	Plastics, rubber, and miscellaneous products.....	4,175	4,074	3,850	3,962	11,886	11,419	12,206	3,728	4,327	3,912	4,133	27,894
33	All other non-durable goods industries.....												73,759
31	Industries.....	12,465	12,108	11,993	12,003	36,304	35,480	34,519	11,863	12,266	11,430	11,708	71,759

Preliminary.

Revised.

¹ Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations: unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

² The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radio and TV, optical aids, goods, watches, and clocks and miscellaneous personal goods.
 Non-durable goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.
 Non-defense products--Comparable to the previous producers' capital goods and the defense products (old series) categories.
 Non-defense products--Comparable to the previous producers' capital goods and the defense products (old series) categories.
 Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.
 The data are comparable to those published annually in the NA-175. Shipments in Federal Government agencies (formerly Shipments of Defense-oriented Industries) for the specialties industries.

Table 2 VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRIES GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
Billions of dollars

SIC	Industry	Seasonally adjusted												Not seasonally adjusted ¹												Year to date	
		Monthly					Quarterly							Monthly												Year start date	Year end date
		July 1981 ²	Aug. 1981	Sept. 1981	Oct. 1981	Nov. 1981	Dec. 1981	Jan. 1982	Feb. 1982	Mar. 1982	Last 4 months			Last 3 months			Last 2 months			Year start date	Year end date						
											July 1981 ²	Aug. 1981	Sept. 1981	Oct. 1981	Nov. 1981	Dec. 1981	Jan. 1982	Feb. 1982	Mar. 1982			Apr. 1982	May 1982	June 1982	July 1982		
TOTALS																											
	All manufacturing industries.....	173,095	179,913	189,340	168,584	308,837	494,772	491,844	157,698	178,134	168,902	171,926	149,637	149,972	149,810	149,207	149,810	149,810	149,810	149,810	1,179,082	1,084,878					
	Manufacturing industries excluding transportation.....	152,303	151,856	154,247	146,886	250,989	403,987	400,495	140,488	157,689	148,404	141,821	122,494	134,774	127,259	131,178	131,178	131,178	131,178	131,178	1,066,611	940,758					
	Manufacturing industries with unfilled orders.....	92,956	89,473	90,182	86,462	208,657	296,734	295,064	82,953	93,441	88,712	81,255	73,784	71,084	74,681	624,477	526,984	526,984	526,984	526,984	624,477	526,984					
	Durable goods industries.....	90,486	88,303	88,196	87,180	201,667	285,493	283,412	80,136	91,380	87,989	80,322	74,333	74,333	74,333	658,100	538,904	538,904	538,904	538,904	611,715	538,904					
	Durable goods with unfilled orders.....	76,075	72,661	73,130	71,957	217,748	275,734	271,382	66,484	76,464	72,989	66,127	59,777	62,333	63,753	63,753	63,753	63,753	63,753	63,753	598,077	452,483					
	Nondurable goods industries.....	82,611	82,610	81,176	81,404	245,140	243,389	243,389	77,220	86,754	80,922	81,984	66,963	75,437	71,069	71,069	71,069	71,069	71,069	71,069	588,263	515,372					
	Industries with unfilled orders.....	16,881	16,814	17,052	17,083	50,969	49,714	47,481	15,819	17,067	16,910	17,128	13,924	14,952	14,331	15,432	14,600	14,600	14,600	14,600	116,400	104,381					
	Industries without unfilled orders.....	65,730	65,796	64,124	64,321	194,241	193,663	190,351	62,001	67,637	64,112	64,836	58,034	63,489	58,359	58,272	58,359	58,272	58,359	58,272	411,393	411,393					
MARKET CATEGORIES																											
	Home goods and apparel.....	12,821	12,776	12,093	12,338	37,187	36,744	34,484	11,761	13,168	13,168	13,133	10,089	11,096	11,174	10,422	84,346	75,330	75,330	75,330	183,892	183,892					
	Consumer staples.....	29,102	29,384	28,186	29,073	86,667	86,030	85,468	27,353	30,010	27,802	28,624	25,922	27,706	26,744	25,450	198,721	183,892	183,892	183,892	183,892	183,892					
	Equipment and defense products, except automotive.....	27,844	25,025	25,346	25,459	75,906	78,133	78,325	24,320	26,642	24,862	26,420	24,384	24,984	23,083	24,232	180,472	165,953	165,953	165,953	165,953	165,953					
	Automotive equipment.....	14,173	15,093	14,248	13,832	43,103	38,242	38,807	12,088	10,189	10,649	11,669	8,867	9,493	9,136	9,534	97,536	72,352	72,352	72,352	72,352	72,352					
	Construction materials, supplies, and intermediate products.....	12,843	13,166	12,755	12,843	38,784	39,424	38,480	12,557	14,265	13,239	13,346	11,180	11,722	11,212	11,627	89,850	80,387	80,387	80,387	80,387	80,387					
	Other materials, supplies, and intermediate products.....	76,312	75,479	76,691	74,999	227,079	221,355	218,614	64,375	77,340	76,185	76,734	62,189	65,491	62,981	67,537	528,348	477,064	477,064	477,064	477,064	477,064					
SUPPLEMENTARY SERIES ²																											
	Household durable goods industries.....	5,635	5,625	5,119	5,693	16,347	16,412	15,001	5,013	5,865	5,981	5,836	4,968	4,571	4,439	4,657	37,802	32,705	32,705	32,705	32,705	32,705					
	Capital goods industries.....	30,537	28,186	28,999	28,133	86,096	81,972	26,568	29,537	27,973	29,301	26,859	26,948	23,080	27,482	200,347	188,291	188,291	188,291	188,291	188,291	188,291					
	Nondefense.....	25,069	23,200	23,865	24,723	71,818	70,688	69,640	25,515	23,030	22,797	24,979	21,264	22,785	19,273	22,773	200,347	167,728	167,728	167,728	167,728	167,728					
	Defense.....	5,468	4,956	5,383	3,976	14,315	15,619	12,334	4,053	5,447	5,106	4,320	5,635	4,163	3,867	4,768	32,457	30,563	30,563	30,563	30,563	30,563					
INDUSTRY GROUPS AND INDUSTRIES																											
	Durable goods industries:																										
2	Stone, clay, and glass.....	4,206	4,259	4,217	4,210	12,686	12,425	12,095	4,126	4,602	4,295	4,357	3,629	3,707	3,561	3,593	29,071	25,488	25,488	25,488	25,488	25,488					
3	Primary metals.....	12,431	11,324	11,809	11,831	34,964	34,728	37,171	10,431	11,581	11,802	12,500	8,883	8,995	8,513	9,966	83,662	75,650	75,650	75,650	75,650	75,650					
33	Nonferrous metals, steel mills, and allied products.....	6,460	6,040	6,076	6,337	18,453	17,971	19,174	5,377	6,106	5,966	6,790	3,888	3,913	3,631	4,252	43,331	38,951	38,951	38,951	38,951	38,951					
333-5,9	Nonferrous metals.....	4,825	4,235	4,612	4,475	13,332	13,766	14,625	4,050	4,386	4,263	4,622	3,321	3,426	3,406	4,076	32,666	34,941	34,941	34,941	34,941	34,941					
4	Fabricated metal products.....	10,927	10,979	10,607	10,291	31,880	31,223	31,880	10,211	11,581	10,673	10,626	8,421	9,152	8,915	9,425	74,118	65,980	65,980	65,980	65,980	65,980					
5	Machinery, except electrical.....	17,032	17,303	17,082	17,504	51,889	50,344	50,070	15,670	18,838	18,635	17,826	14,606	15,586	13,149	12,674	121,226	103,952	103,952	103,952	103,952	103,952					
51	Engines and turbines.....	1,144	1,449	1,325	1,561	4,335	4,200	3,686	1,014	1,442	1,291	1,428	898	965	714	900	782	9,003	6,998	6,998	6,998	6,998					
511	Construction, mining, and transportation equipment.....	3,600	3,856	3,923	3,706	11,085	10,415	9,619	3,487	3,897	3,460	3,999	2,665	2,668	2,633	2,724	25,110	20,561	20,561	20,561	20,561	20,561					
513	Material-handling equipment, except material-handling machinery.....	866	754	741	838	2,333	2,701	2,617	737	855	709	844	735	1,027	828	888	5,335	4,912	4,912	4,912	4,912	4,912					
54	General industrial machinery.....	1,575	1,335	1,620	1,571	4,526	4,198	4,014	1,470	1,481	1,568	1,621	1,125	1,136	1,244	830	10,432	8,855	8,855	8,855	8,855	8,855					

See footnotes at end of table.

Table 3. VALUE OF MATERIAL OUTPUT: UNFILED ORDERS FOR INDUSTRY GROUPS, MAJOR INDUSTRIES, AND SUPPLEMENTARY SERIES
 (billions of dollars)

SIC	Industry	Seasonally adjusted												Not seasonally adjusted ¹											
		Monthly						Quarterly						Monthly											
		1961		1962		1963		1964		1965		1966		1967		1968		1969		1970		1971		1972	
		July	Nov	Apr	Aug	Jan	May	Oct	Feb	Jul	Nov	Apr	Aug	Jan	May	Oct	Feb	Jul	Nov	Apr	Aug	Jan	May	Oct	Feb
TOTALS																									
20	All manufacturing industries.....	3,874.745	3,765,598	3,246,896	3,223,690	3,176,228	3,175,427	3,095,556	3,133,627	3,157,462	3,086,406	3,086,406	3,086,406	3,086,406	3,086,406	3,086,406	3,086,406	3,086,406	3,086,406	3,086,406	3,086,406	3,086,406	3,086,406	3,086,406	3,086,406
21	Manufacturing industries.....	11,196	289,698	2,987,760	2,972,346	2,966,586	2,966,586	2,966,586	2,966,586	2,966,586	2,966,586	2,966,586	2,966,586	2,966,586	2,966,586	2,966,586	2,966,586	2,966,586	2,966,586	2,966,586	2,966,586	2,966,586	2,966,586	2,966,586	2,966,586
22	excluding transportation.....	112,336	314,966	313,400	313,400	313,400	313,400	313,400	313,400	313,400	313,400	313,400	313,400	313,400	313,400	313,400	313,400	313,400	313,400	313,400	313,400	313,400	313,400	313,400	313,400
23	Durable goods industries.....	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400
24	Non-durable goods industries.....	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400
MARKET CATEGORIES																									
25	Food, goods, and apparel.....	4,895	4,895	4,762	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895
26	Textile and apparel.....	191,531	191,531	191,531	191,531	191,531	191,531	191,531	191,531	191,531	191,531	191,531	191,531	191,531	191,531	191,531	191,531	191,531	191,531	191,531	191,531	191,531	191,531	191,531	191,531
27	Chemical and allied products.....	17,568	17,568	17,568	17,568	17,568	17,568	17,568	17,568	17,568	17,568	17,568	17,568	17,568	17,568	17,568	17,568	17,568	17,568	17,568	17,568	17,568	17,568	17,568	17,568
28	Other durable goods.....	117,569	117,569	117,569	117,569	117,569	117,569	117,569	117,569	117,569	117,569	117,569	117,569	117,569	117,569	117,569	117,569	117,569	117,569	117,569	117,569	117,569	117,569	117,569	117,569
SUPPLEMENTARY SERIES²																									
30	Household durable goods industries.....	1,718	1,718	1,718	1,718	1,718	1,718	1,718	1,718	1,718	1,718	1,718	1,718	1,718	1,718	1,718	1,718	1,718	1,718	1,718	1,718	1,718	1,718	1,718	1,718
31	Capital goods industries.....	254,154	254,154	254,154	254,154	254,154	254,154	254,154	254,154	254,154	254,154	254,154	254,154	254,154	254,154	254,154	254,154	254,154	254,154	254,154	254,154	254,154	254,154	254,154	254,154
32	Defense.....	78,821	78,821	78,821	78,821	78,821	78,821	78,821	78,821	78,821	78,821	78,821	78,821	78,821	78,821	78,821	78,821	78,821	78,821	78,821	78,821	78,821	78,821	78,821	78,821
INDUSTRY GROUPS AND INDUSTRIES																									
33	Durable goods industries.....	2,761	2,761	2,761	2,761	2,761	2,761	2,761	2,761	2,761	2,761	2,761	2,761	2,761	2,761	2,761	2,761	2,761	2,761	2,761	2,761	2,761	2,761	2,761	2,761
34	Stone, clay, and glass.....	28,495	28,495	28,495	28,495	28,495	28,495	28,495	28,495	28,495	28,495	28,495	28,495	28,495	28,495	28,495	28,495	28,495	28,495	28,495	28,495	28,495	28,495	28,495	28,495
35	Primary metals.....	17,118	17,118	17,118	17,118	17,118	17,118	17,118	17,118	17,118	17,118	17,118	17,118	17,118	17,118	17,118	17,118	17,118	17,118	17,118	17,118	17,118	17,118	17,118	17,118
36	Rubber, leather, and other primary products.....	8,535	8,535	8,535	8,535	8,535	8,535	8,535	8,535	8,535	8,535	8,535	8,535	8,535	8,535	8,535	8,535	8,535	8,535	8,535	8,535	8,535	8,535	8,535	8,535
37	Chemical and allied products.....	10,806	10,806	10,806	10,806	10,806	10,806	10,806	10,806	10,806	10,806	10,806	10,806	10,806	10,806	10,806	10,806	10,806	10,806	10,806	10,806	10,806	10,806	10,806	10,806
38	Electrical, electronic, and other electrical products.....	75,649	75,649	75,649	75,649	75,649	75,649	75,649	75,649	75,649	75,649	75,649	75,649	75,649	75,649	75,649	75,649	75,649	75,649	75,649	75,649	75,649	75,649	75,649	75,649
39	Transportation equipment.....	16,089	16,089	16,089	16,089	16,089	16,089	16,089	16,089	16,089	16,089	16,089	16,089	16,089	16,089	16,089	16,089	16,089	16,089	16,089	16,089	16,089	16,089	16,089	16,089
40	Construction, mining, and other non-durable goods.....	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369
41	Non-durable goods industries.....	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369	11,369
42	General industrial machinery.....	6,611	6,611	6,611	6,611	6,611	6,611	6,611	6,611	6,611	6,611	6,611	6,611	6,611	6,611	6,611	6,611	6,611	6,611	6,611	6,611	6,611	6,611	6,611	6,611

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry group	(Millions of dollars)											
		Seasonally adjusted						Not seasonally adjusted ¹					
		Monthly			Quarterly			Monthly			Last 4 months		
		July 1981 ^b	June 1981 ^a	May 1981	Apr. 1981	I 1981	II 1981	III 1981	IV 1981	I 1980	II 1980	III 1980	Apr. 1980
INDUSTRY GROUP AND INDUSTRIES--													
(continued)													
Durable goods industries--													
(continued)													
36	Electrical machinery.....	50,421	49,124	49,207	49,082	48,494	47,225	45,819	45,341	44,505	44,637	45,483	45,930
361	Electrical transmission and distribution equipment and apparatus.....	8,474	8,392	8,446	8,234	8,361	7,967	7,905	7,907	7,735	8,459	8,096	8,159
362	Household appliances.....	416	416	416	416	416	416	416	416	416	416	416	416
363	Radio and TV.....	416	378	189	414	482	366	422	416	389	448	411	394
364	Communication equipment.....	27,753	27,542	26,810	26,876	26,340	25,427	23,863	22,802	22,090	27,461	22,870	22,993
367	Electronic components.....	12,181	12,207	12,421	11,978	11,733	12,019	12,135	12,695	12,834	12,226	12,873	13,040
367	Transportation equipment.....	117,549	115,515	116,909	115,934	116,198	113,043	114,513	108,540	105,682	114,860	107,909	108,503
372	Parts.....	92,092	90,504	91,319	90,249	91,299	88,371	90,466	85,924	80,345	90,551	88,020	84,033
373	Shipbuilding and military tank vehicles.....	17,313	16,953	17,279	17,349	16,478	16,087	15,421	13,480	13,549	16,975	13,513	13,861
379	Instruments and related	7,211	7,056	6,982	6,887	7,012	6,987	6,863	6,944	7,064	6,980	6,937	7,051
25	All other durable goods.....	4,876	4,955	4,990	5,003	4,915	4,267	4,050	4,244	4,809	5,231	4,373	4,714

^a Preliminary.^b Revised.

¹ Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders are of the end of the period and are not adjusted for trading-day or calendar-month variations.

² The following are the major components of the separate industry categories as follows:

Household durable goods: Industries--household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radio and TV, optical-electronic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), the defense products (old series) categories, communication equipment, aircraft and aircraft parts, and ornamental and recreation equipment, aircraft and aircraft parts, and miscellaneous.

Defense products--Comparable to the previous producers' capital goods and the defense products (old series) categories.

The data are comparable to those published annually in the 1977, "Shipments in Federal Government Economic Accounts," "Shipments of Nonmonetary Industries," and "Shipments of Monetary Industries." Beginning in 1976, the fiscal year for the Federal Government probably affected the timing of contracts and other financial arrangements. Although the impact of this change is not known, the use of previous established seasonal factors could have substantially distorted the current data since these seasonal factors reflect historical Government purchasing patterns. Therefore, beginning in July 1977, the composite seasonal factors were developed by combining the fiscal year information with data for the previous calendar quarter (i.e., one quarter preceding the end of the fiscal year). These composite factors were applied to the data beginning in July 1977.

Since such data are not compiled separately, this method of calculating the seasonal factors will be used until a sufficient amount of data are available to assess the impact of the change in the fiscal year on the seasonal pattern of the defense industries.

[illegible]

See footnotes at end of table.

Table 4. VALUE OF MANUFACTURES' INVENTORIES FOR INDUSTRY CATEGORIES, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(billions of dollars)

SIC	Industry	Monthly				Seasonally adjusted				Quarterly				Not seasonally adjusted				
		July 1981P	June 1981P	May 1981	Apr. 1981	I 1981	IV 1980	III 1980	II 1980	I 1980	July 1981P	June 1981P	May 1981	Apr. 1981	July 1980	June 1980	May 1980	Apr. 1980
13-36 Durable goods industries--continued	INDUSTRY GROUPS AND INDUSTRIES--continued	25,919	25,589	25,457	25,589	25,057	24,383	24,350	24,145	23,788	26,096	26,173	26,111	25,966	26,504	26,612	26,784	26,553
	Electrical machinery.....	4,556	4,488	4,428	4,402	4,263	4,163	4,222	4,263	4,142	4,541	4,526	4,520	4,475	4,493	4,498	4,348	4,296
	Electrical transmission and distribution equipment.....	1,982	1,934	1,921	1,905	1,874	1,843	1,843	1,843	1,843	2,017	2,017	2,017	2,017	1,912	2,050	2,177	2,264
	Household appliances.....	1,548	1,492	1,481	1,466	1,444	1,311	1,282	1,309	1,279	1,561	1,561	1,571	1,466	1,383	1,371	1,399	1,330
	Radio and TV.....	8,887	8,886	8,835	8,952	8,774	8,630	8,589	8,178	7,467	8,452	8,503	8,515	9,013	8,388	8,193	8,199	8,080
	Communication equipment.....	4,267	4,267	4,267	4,267	4,267	4,267	4,267	4,267	4,267	4,267	4,267	4,267	4,267	4,267	4,267	4,267	4,267
	Electronic components.....	18,849	18,428	18,427	18,305	18,111	16,810	16,542	16,429	16,313	18,429	18,429	18,429	18,429	18,429	18,429	18,429	18,429
	Transportation equipment.....	9,401	9,275	9,376	9,489	9,605	9,694	9,409	9,865	10,388	9,791	9,405	9,495	9,532	8,967	9,610	10,084	10,561
	Motor vehicles and parts.....	25,033	24,920	24,641	24,266	24,001	22,918	21,835	20,160	18,638	25,210	24,755	24,586	25,482	20,985	19,360	19,162	19,162
	Aircraft, missiles, and parts.....	2,399	2,436	2,724	2,667	2,612	2,265	2,105	2,130	1,922	2,631	2,631	2,726	2,586	2,219	2,122	2,013	1,971
37-39 Transportation equipment	Shipbuilding and military tank vehicles.....	9,536	9,603	9,646	9,581	9,480	9,380	9,317	8,994	8,727	9,612	9,771	9,854	9,723	9,121	9,135	9,134	8,959
	Trucks, trailers, and semitrailers.....	6,814	6,839	6,748	6,748	6,593	6,474	6,309	6,263	5,982	6,827	6,924	6,941	6,812	6,467	6,348	6,246	6,135
	Scientific and engineering equipment.....	2,240	2,247	2,267	2,283	2,259	2,243	2,172	2,135	2,112	2,270	2,321	2,358	2,358	2,194	2,205	2,137	2,209
	Photographic goods.....	14,694	14,508	14,568	14,352	14,213	14,046	14,175	13,923	14,040	14,644	14,618	14,677	14,566	13,932	14,032	14,294	14,294
	All other durable goods industries.....	22,135	21,862	22,114	22,055	22,027	22,323	22,368	21,663	21,377	21,098	20,774	21,276	21,620	20,811	20,491	20,367	20,817
	Nonferrous metals.....	3,703	3,743	3,797	3,863	3,909	3,866	3,770	3,893	3,849	3,551	3,453	3,400	3,410	3,465	3,465	3,465	3,465
	Food and kindred products.....	1,770	1,748	1,787	1,734	1,792	2,055	2,188	1,860	1,678	1,559	1,559	1,723	1,793	1,719	1,739	1,601	1,747
	Fats and oils.....	12,771	12,456	12,551	12,411	12,476	12,428	12,480	11,885	12,692	12,035	11,509	11,672	11,765	11,758	10,770	11,196	11,476
	Tobacco products.....	3,669	3,570	3,699	3,643	3,689	3,507	3,487	3,453	3,457	3,453	3,453	3,453	3,453	3,453	3,453	3,453	3,453
	Textile mill products.....	6,702	6,604	6,562	6,543	6,518	6,386	6,102	6,250	6,274	6,733	6,739	6,733	6,751	6,176	6,377	6,508	6,452
20-29 Chemical and allied products	Pulp and allied products.....	8,421	8,320	8,254	8,246	8,266	7,988	7,818	7,866	7,600	8,529	8,561	8,475	8,404	7,897	8,060	7,983	7,817
	Paper, paper, etc.....	3,036	3,018	2,983	2,976	2,972	2,794	2,894	2,779	2,550	3,047	3,050	3,018	2,817	2,877	2,877	2,877	2,877
	Paperboard containers.....	2,269	2,255	2,104	2,112	2,188	1,973	2,094	2,045	2,045	2,045	2,045	2,045	2,045	2,045	2,045	2,045	2,045
	All other paper containers.....	3,116	3,059	3,037	3,059	3,126	3,025	2,993	3,007	3,007	3,007	3,007	3,007	3,007	3,007	3,007	3,007	3,007
	Chemical and allied products.....	7,013	7,018	7,018	7,018	7,018	7,018	7,018	7,018	7,018	7,018	7,018	7,018	7,018	7,018	7,018	7,018	7,018
	Chemical and allied products.....	6,871	6,961	6,880	6,919	6,693	6,244	6,200	6,714	6,725	6,678	6,622	6,880	6,719	6,476	6,380	6,511	6,473
	Drugs, soap, and toiletries.....	5,865	5,839	5,835	5,738	5,819	5,612	5,596	5,587	5,447	5,647	5,568	5,594	5,802	5,611	5,710	5,680	5,588
	Petroleum and coal products.....	9,621	9,596	10,278	9,932	9,885	8,400	8,605	8,711	7,966	9,417	9,417	9,417	9,417	9,417	9,417	9,417	9,417
	Rubber and plastics products.....	5,695	5,634	5,616	5,632	5,538	5,279	5,232	5,603	5,759	5,655	5,460	5,706	5,766	5,944	5,944	5,944	5,944
	23-39 All other nondurable goods industries	15,106	14,817	15,103	14,819	14,656	14,333	14,343	14,341	13,761	15,483	15,738	15,631	15,039	14,976	15,106	15,106	14,976

Preliminary.

Revised.

Seasonally adjusted figures are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories as of the end of the period and are not adjusted for trading-day variations.

The supplementary series are reconstructions of the separate industry categories as follows:

Household durable goods industries--Household furniture, kitchen appliances and pottery, cutlery, handtools, and hardware, household appliances, radio, and electronic goods, watches, and clocks and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense producers' (old series) categories.

Nonferrous metals industries--Includes the production of metal and machinery and equipment shops, electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nonferrous portions of shipbuilding and repairing and metal products.

Defense products industries--Includes the production of defense goods and services, defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the M-175, "Shipments by Federal Government Agencies," formerly "Shipments of Defense-Related Industries," for the specified industries.

TABLE 2. VALUE OF MANUFACTURES, INVENTORIES, IN STOCK OF FACTORIES, BY INDUSTRY, 1967

Industry	Seasonally adjusted										Not seasonally adjusted									
	Monthly					Quarterly					Year					Year				
	July 1967	Aug 1967	Sept 1967	Oct 1967	Nov 1967	Dec 1967	I 1968	II 1968	III 1968	IV 1968	July 1969	1969	1970	1971	1972	1973	1974	1975	1976	1977
TOTALS																				
All manufacturing industries.....	289,709	299,260	287,006	292,132	287,006	292,132	287,006	292,132	287,006	292,132	287,006	292,132	287,006	292,132	287,006	292,132	287,006	292,132	287,006	292,132
Durable goods industries.....	178,715	177,117	177,123	177,123	177,123	177,123	177,123	177,123	177,123	177,123	177,123	177,123	177,123	177,123	177,123	177,123	177,123	177,123	177,123	177,123
Stone, clay, and glass products.....	6,466	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506
Primary metals.....	23,136	23,136	23,136	23,136	23,136	23,136	23,136	23,136	23,136	23,136	23,136	23,136	23,136	23,136	23,136	23,136	23,136	23,136	23,136	23,136
Fabricated metals.....	40,105	40,105	40,105	40,105	40,105	40,105	40,105	40,105	40,105	40,105	40,105	40,105	40,105	40,105	40,105	40,105	40,105	40,105	40,105	40,105
Electrical machinery.....	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919
Transportation equipment.....	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649
Instruments and related products.....	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506	6,506
All other durable goods industries.....	14,998	14,998	14,998	14,998	14,998	14,998	14,998	14,998	14,998	14,998	14,998	14,998	14,998	14,998	14,998	14,998	14,998	14,998	14,998	14,998
Non-durable goods industries.....	91,033	91,033	91,033	91,033	91,033	91,033	91,033	91,033	91,033	91,033	91,033	91,033	91,033	91,033	91,033	91,033	91,033	91,033	91,033	91,033
Chemicals and allied products.....	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621
Textiles and apparel products.....	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621
Rubber and plastics products.....	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919
All other non-durable goods industries.....	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919
MANUFACTURE AND SUPPLIES																				
All manufacturing industries.....	91,724	91,724	91,724	91,724	91,724	91,724	91,724	91,724	91,724	91,724	91,724	91,724	91,724	91,724	91,724	91,724	91,724	91,724	91,724	91,724
Durable goods industries.....	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960
Primary metals.....	7,672	7,672	7,672	7,672	7,672	7,672	7,672	7,672	7,672	7,672	7,672	7,672	7,672	7,672	7,672	7,672	7,672	7,672	7,672	7,672
Fabricated metals.....	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399
Electrical machinery.....	10,617	10,617	10,617	10,617	10,617	10,617	10,617	10,617	10,617	10,617	10,617	10,617	10,617	10,617	10,617	10,617	10,617	10,617	10,617	10,617
Instruments and related products.....	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919
All other durable goods industries.....	16,764	16,764	16,764	16,764	16,764	16,764	16,764	16,764	16,764	16,764	16,764	16,764	16,764	16,764	16,764	16,764	16,764	16,764	16,764	16,764
Non-durable goods industries.....	32,764	32,764	32,764	32,764	32,764	32,764	32,764	32,764	32,764	32,764	32,764	32,764	32,764	32,764	32,764	32,764	32,764	32,764	32,764	32,764
Chemicals and allied products.....	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595
Rubber and plastics products.....	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595
All other non-durable goods industries.....	23,574	23,574	23,574	23,574	23,574	23,574	23,574	23,574	23,574	23,574	23,574	23,574	23,574	23,574	23,574	23,574	23,574	23,574	23,574	23,574
WORK IN PROCESS																				
All manufacturing industries.....	89,701	89,701	89,701	89,701	89,701	89,701	89,701	89,701	89,701	89,701	89,701	89,701	89,701	89,701	89,701	89,701	89,701	89,701	89,701	89,701
Durable goods industries.....	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960	58,960
Stone, clay, and glass products.....	974	974	974	974	974	974	974	974	974	974	974	974	974	974	974	974	974	974	974	974
Primary metals.....	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649
Fabricated metals.....	13,631	13,631	13,631	13,631	13,631	13,631	13,631	13,631	13,631	13,631	13,631	13,631	13,631	13,631	13,631	13,631	13,631	13,631	13,631	13,631
Electrical machinery.....	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476	2,476
Instruments and related products.....	1,536	1,536	1,536	1,536	1,536	1,536	1,536	1,536	1,536	1,536	1,536	1,536	1,536	1,536	1,536	1,536	1,536	1,536	1,536	1,536
All other durable goods industries.....	14,684	14,684	14,684	14,684	14,684	14,684	14,684	14,684	14,684	14,684	14,684	14,684	14,684	14,684	14,684	14,684	14,684	14,684	14,684	14,684
Non-durable goods industries.....	30,741	30,741	30,741	30,741	30,741	30,741	30,741	30,741	30,741	30,741	30,741	30,741	30,741	30,741	30,741	30,741	30,741	30,741	30,741	30,741
Chemicals and allied products.....	1,083	1,083	1,083	1,083	1,083	1,083	1,083	1,083	1,083	1,083	1,083	1,083	1,083	1,083	1,083	1,083	1,083	1,083	1,083	1,083
Rubber and plastics products.....	8,166	8,166	8,166	8,166	8,166	8,166	8,166	8,166	8,166	8,166	8,166	8,166	8,166	8,166	8,166	8,166	8,166	8,166	8,166	8,166
All other non-durable goods industries.....	21,572	21,572	21,572	21,572	21,572	21,572	21,572	21,572	21,572	21,572	21,572	21,572	21,572	21,572	21,572	21,572	21,572	21,572	21,572	21,572
FINISHED GOODS																				
All manufacturing industries.....	81,792	81,792	81,792	81,792	81,792	81,792	81,792	81,792	81,792	81,792	81,792	81,792	81,792	81,792	81,792	81,792	81,792	81,792	81,792	81,792
Durable goods industries.....	41,588	41,588	41,588	41,588	41,588	41,588	41,588	41,588	41,588	41,588	41,588	41,588	41,588	41,588	41,588	41,588	41,588	41,588	41,588	41,588
Stone, clay, and glass products.....	5,536	5,536	5,536	5,536	5,536	5,536	5,536	5,536	5,536	5,536	5,536	5,536	5,536	5,536	5,536	5,536	5,536	5,536	5,536	5,536
Primary metals.....	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399	11,399
Fabricated metals.....	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649	18,649
Non-durable goods industries.....	40,204	40,204	40,204	40,204	40,204	40,204	40,204	40,204	40,204	40,204	40,204	40,204	40,204	40,204	40,204	40,204	40,204	40,204	40,204	40,204
Chemicals and allied products.....	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621	9,621
Rubber and plastics products.....	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595	2,595
All other non-durable goods industries.....	28,088	28,088	28,088	28,088	28,088	28,088	28,088	28,088	28,088	28,088	28,088	28,088	28,088	28,088	28,088	28,088	28,088	28,088	28,088	28,088

*Preliminary.

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent change							Revisions ²		
	Month-to-month			Average monthly rate of change ¹				Year ago July 1980	Average monthly	
	June 1981- July 1981	May 1981- June 1981	Apr. 1981- May 1981	Second quarter 1981	First quarter 1981	Fourth quarter 1980	Aug. 1980 through July 1981		July 1980 through June 1981	July 1976-1980
Shipments:										
All manufacturing industries	-0.7	+2.4	0.0	+1.1	+0.4	+1.4	+1.0	-	0.3	0.3
Durable goods industries	-1.5	+2.4	+0.4	+1.4	+0.6	+1.5	+1.2	0.5	0.4	0.5
Nondurable goods industries	+0.1	+2.3	-0.4	+0.8	+0.2	+1.3	+0.9	0.8	0.4	0.8
Inventories:										
All manufacturing industries	+0.9	+0.2	+0.7	+0.4	+1.1	+0.1	+0.5	0.2	0.2	0.1
New Orders:										
All manufacturing industries	+1.3	+0.9	+0.5	+0.7	+0.1	+1.5	+0.9	0.3	0.3	0.6
Durable goods industries	+2.5	+0.2	+1.1	+0.6	+0.1	+1.8	+1.0	1.0	0.6	1.0
Nondurable goods industries	0.0	+1.8	-0.3	+0.8	+0.1	+1.3	+0.9	0.4	0.4	0.6
Unfilled orders:										
Durable goods industries	+1.0	-0.2	+0.5	+0.2	+0.4	+0.5	+0.5	0.1	0.1	0.2

- Represents zero

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	July 1981 ^P	June 1981 ^F	May 1981	Apr. 1981	July 1981 ^P	June 1981 ^F	May 1981	Apr. 1981
All manufacturing industries	1.60	1.57	1.61	1.60	3.65	3.62	3.69	3.69
Durable goods industries	2.07	2.01	2.05	2.05	4.35	4.30	4.40	4.41
Stone, clay, and glass products	1.57	1.57	1.56	1.49	0.61	0.63	0.61	0.58
Primary metals	1.99	1.98	1.96	2.00	2.41	2.42	2.46	2.49
Fabricated metals	1.91	1.89	1.87	1.89	3.19	3.10	3.07	3.12
Machinery, except electrical	2.39	2.33	2.39	2.36	4.75	4.72	4.86	4.84
Electrical machinery	2.20	2.20	2.20	2.25	4.29	4.29	4.24	4.32
Transportation equipment	2.07	1.89	2.01	2.02	10.87	10.16	11.11	11.07
Instruments and related products	2.24	2.26	2.29	2.38	1.69	1.66	1.66	1.71
Nondurable goods industries	1.10	1.10	1.13	1.11	0.65	0.68	0.69	0.67
Food and kindred products	0.98	0.96	1.01	0.97	(X)	(X)	(X)	(X)
Tobacco products	3.00	3.09	3.58	3.33	(X)	(X)	(X)	(X)
Textile mill products	1.52	1.48	1.51	1.56	(NA)	(NA)	(NA)	(NA)
Paper and allied products	1.29	1.30	1.28	1.26	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products	1.29	1.32	1.35	1.33	(X)	(X)	(X)	(X)
Petroleum and coal products	0.60	0.61	0.63	0.62	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.	1.38	1.38	1.46	1.43	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. ^FRevised. (X) Not applicable.¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey provides broad-based monthly statistical data on economic conditions in the domestic manufacturing sector. It is designed to measure current industrial activity and to provide an indication of future trends. The data are used extensively by the executive branch of the Government in developing economic, fiscal, and monetary policy; by the Bureau of Economic Analysis (BEA) as components of the gross national product estimates; and by trade associations, corporate economists, and other members of the business community as an analytical tool in their assessment of the current and future economic condition of the country.

The M3 shipments and inventory data are comparable to the totals published in the Annual Survey of Manufactures (ASM). The ASM is a sample survey of approximately 70,000 manufacturing establishments drawn from a 5-year census of manufacturing universe of about 350,000 manufacturing establishments. In the ASM, each manufacturing location reports data on value of shipments, beginning and end-of-year inventories, as well as various other economic variables.

The monthly M3 estimates through 1980 are based on information obtained from approximately 4,500 reporting units and include most manufacturing companies with 1,000 or more employees. In addition, selected smaller companies are included to strengthen the sample coverage in individual industry categories. For firms which operate in a single M3 industry category, the reporting unit typically comprises all operations of the company. At the request of the Census Bureau, most large, diversified companies file separate reports for divisions which operate in different industrial areas.

Each company or reporting unit of a company in the survey is classified into 1 of 79 industry categories for which separate estimates are made based on the major activity of the reporting unit. Some reporting units include industry activities outside the M3 category in which they are classified. The survey methodology assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category.

The M3 series is periodically benchmarked to the Census of Manufactures and the ASM for shipments and inventories. The most recent benchmark included data for 1977 and 1978. Since benchmark data for unfilled orders are not available, levels are based upon the ratio of unfilled orders to shipments of reporting companies. In the 1977-1978 benchmark report, unfilled orders levels were revalued based on unfilled orders to shipments ratios of reporting companies in the monthly M3 survey; the MA-300, a one-time annual supplemental survey of multi-establishment companies; and the ASM for single-establishment companies.

MONTHLY ESTIMATING PROCEDURE

The monthly estimates of shipments, unfilled orders, and total inventories are derived for each industry category by

multiplying the industry estimate for the previous month by the percentage change from the previous month for companies reporting in the current month.

Though collected as a separate item, new orders are not calculated according to the standard ratio-estimate procedure. The reason for this is that not all companies report new orders and some that do report this item limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. New orders are, therefore, computed by adjusting the current month's shipments by the change in the backlog of unfilled orders. (New orders equal current month shipments plus current month unfilled orders minus prior month unfilled orders.) Thus, the estimate of new orders includes orders that are received and filled in the same month as well as new orders that have not yet been filled. Also included are the effects of cancellations and modifications on previously reported orders.

SEASONAL ADJUSTMENT

The monthly data on shipments, inventories, and unfilled orders are adjusted for seasonality at the most detailed level tabulated in the survey, using the X-11 variant of the Census Bureau's seasonal adjustment program. Data from January 1958 through December 1980 are included in the calculations of the factors used in this publication.

Seasonally adjusted industry aggregates are derived by adding seasonally adjusted components rather than by direct seasonal adjustment of the aggregates. New orders data are not independently seasonally adjusted but are derived at the most detailed levels from the seasonally adjusted shipments and the change in the seasonally adjusted unfilled orders and then similarly aggregated.

EXPLANATION OF TERMS

Value of Shipments—The shipments estimates published in the monthly survey are equivalent to value of shipments as reported in the ASM which are net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments is the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the shipbuilding industry, the value of shipments in a given time period varies considerably from the value of work done because of the long lead time between the input of the materials and labor and the delivery of the completed ship. For this industry and for aircraft and missile producers working under cost-plus contracts, the value of work done during the year is requested rather than the value of shipments.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and M3 industry

category levels since the products of some four-digit SIC industries are used as materials by other industries within the same industry aggregate. The significance of the duplication within the specific M3 industry categories varies depending on their four-digit industry composition. It is most pronounced in a few highly integrated industry areas, such as primary metals and motor vehicles and parts.

For multiunit companies, the M3 reports received each month typically are not plant reports but are company or divisional level reports that encompass groups of plants. The actual sales reported are usually net sales and receipts from customers and exclude the duplication of interplant transfers. The reported sales are used to calculate month-to-month changes which bring forward the plant-based shipments for the industry category as estimated in the ASM.

Inventories—In the monthly survey and in the ASM, respondents are asked to report their inventories at book values. Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the value of aggregate inventories for all plants in an industry is not precise.

There are also some inconsistencies between the M3 company or divisional reported inventory levels as compared with the ASM establishment reported levels. The change in the value of inventories, month-to-month as well as year-to-year, is considered to have greater significance and reliability.

Inventory data are requested from respondents by stage of fabrication, i.e., finished goods, work in process, and raw materials and supplies. However, the quality of these data is limited due to lower response rates and the inclusion of the same type of inventory under different stages of fabrication in the aggregate statistics.

New Orders Received and Unfilled Orders—Orders as reported in the monthly survey are net of cancellations received during the month on orders previously reported. They include orders received and filled during the month as well as orders received for future delivery. They also include the net sales value of contract changes which increase or decrease the sales value of the unfilled orders to which they relate. Orders are defined to include only those supported by binding legal documents such as signed contracts, letters of award, or letters of intent, although in some industries this definition may not be strictly applicable. In the case of letters of intent, the full amount of the sales value is included if the parties are in substantial agreement on the amount; otherwise, only the funds specifically authorized to be expended are included.

Unfilled orders include orders as defined above that have not been reflected as shipments. Generally, unfilled orders at the end of the reporting period are equal to unfilled orders at the beginning of the period plus net new orders received less net shipments.

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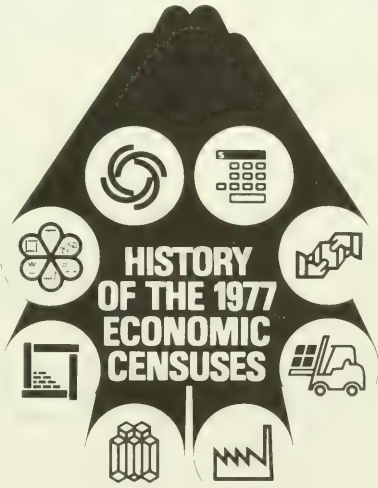
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BUREAU OF THE CENSUS

Manufacturers' Shipments, Inventories, and Orders

AUGUST 1981

M3-1(81)-8
For Wire Transmission 3:00 P.M. E.D.T. Thursday, October 1, 1981

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods decreased in August \$3.2 billion or 1.9 percent to \$169.2 billion, the Department of Commerce, Bureau of the Census reported today. This is the first decline in orders at the all manufacturing level since the 0.9 percent decline in January. The order increases from February through June were all less than 1 percent.

New orders for durable goods declined \$3.1 billion or 3.5 percent in August to \$86.3 billion, revised from the earlier reported 2.5 percent decline. The nondurable goods industries showed almost no change from July. The largest declines in durable goods new orders were reported by aircraft, primary metals, and fabricated metals producers. In the aircraft industry, where new orders are volatile on a month-to-month basis, new orders were down \$0.9 billion or 14.4 percent to \$5.2 billion. New orders for aircraft so far this year have averaged \$5.2 billion per month as compared to a \$5.8 billion average for January through August of 1980.

The decline in August new orders for fabricated metal products was estimated at \$1.0 billion, down 9.0 percent from July to \$9.8 billion. This is the largest decrease in that category since a 9.0 percent decline in March 1980. In the primary metals category, both steel and nonferrous metal manufacturers reported declines. New orders for steel were down \$0.4 billion or 5.8 percent to \$6.1 billion, while orders for nonferrous products were off \$0.3 billion or 6.9 percent to \$4.5 billion.

New orders for nondefense capital goods were valued at \$24.2 billion, unchanged from July. A 6.8 percent increase in the nonelectrical machinery component was offset by declines in most of the other categories. New orders of defense capital goods increased \$0.3 billion or 6.3 percent to \$5.8 billion, with all components except complete aircraft increasing.

Shipments of manufactured goods in August declined \$1.4 billion or 0.8 percent to \$168.7 billion, following an equal decline in July of \$1.4 billion or 0.8 percent. The August declines were widespread. Within the durable goods sector, most of the industries showed declines of \$0.1 billion to \$0.2 billion each. The only significant increase in durable goods shipments

occurred in the aircraft industry, where deliveries were up \$0.4 billion or 8.4 percent to \$4.8 billion.

Shipments of nondurable goods, valued at \$82.8 billion, were off \$0.2 billion or 0.2 percent from July. An increase in petroleum shipments of \$0.7 billion or 4.1 percent was offset by declines in nearly all of the other categories. Excluding the petroleum industry, nondurable goods shipments were down 1.2 percent.

The backlog of orders for manufactured goods in August increased \$0.5 billion or 0.2 percent to \$328.7 billion. The pattern of change throughout the industries was mixed. Increases in the orders backlog for transportation equipment and machinery of \$1.1 billion and \$0.5 billion, respectively, were partially offset by declines in the primary metals order backlog of \$0.3 billion and the fabricated metals backlog of \$0.6 billion. The backlog of defense orders increased \$1.4 billion or 1.9 percent to \$77.4 billion.

The book value of manufacturers' inventories in August increased \$0.8 billion or 0.3 percent to \$272.6 billion. The primary and fabricated metal products industries reported much larger increases, going up 1.9 percent and 1.3 percent, respectively. Significant declines in inventories occurred in the motor vehicle and parts industry, down \$0.3 billion or 3.5 percent to \$9.1 billion, and the petroleum industry, down \$0.5 billion or 4.7 percent also to \$9.1 billion. The change in the inventory value by stage of fabrication showed raw materials and supplies declining 0.8 percent, work in process increasing 0.6 percent, and finished goods increasing 1.2 percent. The inventory to shipments ratio for manufacturers in August was 1.62, up from 1.60 in July.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for September is scheduled for release on October 22, 1981, and the full report is scheduled for release on November 2, 1981.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Billions of dollars)

SIC	Industry	Seasonally adjusted						Not seasonally adjusted ¹												Year's date	
		Monthly						Quarterly													
		Monthly						Monthly												Year's date	
		Aug. 1981 ²	July 1981 ²	June 1981 ²	May 1981 ²	11 1981 ²	I 1981 ²	IV 1980 ²	Aug. 1981 ²	July 1981 ²	June 1981 ²	May 1981 ²	Aug. 1980 ²	July 1980 ²	June 1980 ²	May 1980 ²	1981 ²	1980 ²			
TOTALS																					
	All manufacturing industries.....	168,654	170,668	171,494	167,327	598,512	495,400	487,142	165,937	158,408	174,478	169,340	147,823	137,531	172,940	146,724	1,335,884	1,195,758			
	Manufacturing industries excluding transportation...	149,673	151,357	151,054	148,147	447,982	443,189	434,123	149,558	146,035	158,094	148,974	135,771	124,484	148,123	135,208	1,187,561	1,076,628			
	Manufacturing industries with unfilled orders.....	88,979	89,470	90,076	88,469	286,173	240,886	234,162	87,124	81,378	87,405	89,130	76,154	70,695	80,365	76,961	701,491	626,070			
	Durable goods industries.....	85,827	87,063	88,776	86,684	281,761	252,002	249,229	82,431	78,497	95,046	88,284	77,051	71,470	80,351	75,517	684,540	601,047			
	Durable goods with unfilled orders.....	71,916	72,467	73,128	71,610	215,863	211,253	208,400	69,776	65,437	78,110	71,411	60,801	56,575	68,949	62,110	568,327	505,870			
	Nondurable goods industries.....	82,827	83,005	82,754	80,463	244,751	243,478	237,913	83,506	77,911	86,942	80,731	76,214	70,161	75,879	71,212	651,348	592,611			
	Nondurable goods with unfilled orders.....	17,013	17,303	16,928	16,719	50,510	49,633	47,462	17,368	15,946	17,295	16,739	15,356	14,122	15,394	14,853	133,364	120,180			
MARKET CATEGORIES																					
	Home goods and apparel.....	12,734	12,797	12,572	12,235	37,089	36,086	34,982	13,230	11,555	12,467	11,591	11,821	10,088	11,074	10,248	96,042	86,949			
	Consumer staples.....	28,975	29,219	29,364	28,207	86,554	86,007	85,374	28,913	27,434	29,981	27,841	28,327	25,899	27,713	26,784	227,645	212,146			
	Equipment and defense products, except automotive.....	25,767	25,608	25,948	25,241	76,394	74,189	72,322	24,533	23,026	28,003	25,416	21,435	20,911	26,895	23,822	200,152	179,542			
	Automotive equipment.....	13,468	14,125	13,240	12,134	43,191	41,860	40,394	11,753	12,468	18,361	15,019	8,534	8,781	9,880	9,619	104,273	82,897			
	Construction materials, supplies, and intermediate products.....	12,304	12,734	12,696	12,812	18,564	18,202	18,107	13,082	12,516	11,862	13,275	12,213	11,348	11,961	11,019	102,335	92,731			
	Other materials, supplies, and intermediate products.....	75,526	75,970	75,714	74,808	224,749	222,426	217,607	74,436	69,802	78,810	75,808	65,533	60,542	67,797	66,612	600,462	541,463			
SUPPLEMENTARY SERIES²																					
	Household durable goods industries.....	5,091	5,512	5,403	5,391	16,241	15,738	15,112	5,377	4,715	5,606	5,105	4,948	4,081	4,624	4,536	41,605	37,359			
	Capital goods industries.....	28,630	28,160	28,714	27,822	84,469	83,807	80,359	22,920	21,671	26,488	23,942	20,135	20,008	23,510	21,691	189,195	171,549			
	Defense.....	4,394	4,229	4,112	3,981	12,017	11,586	11,092	4,189	3,909	4,100	4,015	3,234	3,193	3,512	3,434	31,806	26,043			
INDUSTRY GROUPS AND INDUSTRIES																					
	Durable goods industries:																				
32	Food, drink, and tobacco products.....	4,021	4,250	4,207	4,180	12,680	12,597	12,062	4,306	4,151	4,592	4,279	3,907	3,636	3,871	3,627	33,466	29,397			
322	Textile mill and glass products.....	499	546	546	498	1,567	1,386	1,290	521	515	576	501	437	410	435	397	4,012	3,208			
33	Primary metals.....	11,935	11,971	11,810	11,824	35,325	35,521	34,933	11,511	10,406	12,628	12,267	9,953	9,137	10,369	10,671	95,806	89,167			
331-9	Blat furnaces, steel mills, and other primary metal products.....	6,115	6,228	6,172	6,209	18,462	17,477	17,477	5,736	5,736	6,617	6,384	4,590	4,590	5,367	5,367	49,341	40,801			
34	Fabricated metal products.....	4,684	4,667	4,522	4,472	13,454	14,053	14,053	4,925	4,144	4,789	4,681	4,621	4,324	4,715	4,755	37,300	39,822			
341	Metal cans, barrels, and drums.....	10,639	10,567	10,591	10,594	31,644	31,279	31,400	10,540	9,701	11,100	10,800	9,434	8,450	9,522	9,129	83,407	75,512			
35	Machinery, except electrical.....	16,873	17,000	17,060	16,813	53,613	53,613	53,613	15,927	15,465	18,771	18,771	13,860	13,671	16,125	16,761	134,763	118,185			
351	Electrical, electronic, and optical equipment.....	1,435	1,547	1,713	1,713	4,101	3,864	3,665	1,326	1,258	1,489	1,362	1,002	1,124	1,274	1,184	10,997	9,175			
352	Pump machinery and equipment.....	1,170	1,164	1,106	1,116	3,800	3,614	3,689	1,082	1,041	1,428	1,309	1,044	945	1,200	1,234	10,204	9,213			
353	Construction, mining, and material-handling equipment.....	3,463	3,118	3,315	3,118	9,856	9,619	8,995	3,352	3,196	3,421	3,384	2,773	2,701	2,934	2,909	26,531	23,684			
354	Metallworking machinery.....	1,010	955	998	944	2,910	2,957	2,967	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	11,299	10,454			
356	General industrial machinery.....	1,407	1,391	1,410	1,401	4,202	4,071	4,113	1,424	1,335	1,537	1,509	1,267	1,192	1,420	1,278	11,299	10,454			

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	Seasonally adjusted					Quarterly				Monthly					Year to date		
		Monthly			May 1981	Quarterly		Monthly										
		Aug. 1981P	July 1981P	June 1981		II 1981	I 1981	IV 1980	Aug. 1981P	July 1981P	June 1981	May 1981	Aug. 1980	July 1980	May 1980			
INDUSTRY GROUPS AND INDUSTRIES-- Continued																		
Durable goods and industries-- Continued																		
36	Electrical machinery.....	11,538	11,713	11,679	11,597	34,669	33,101	32,704	11,258	10,351	12,330	11,338	10,263	9,150	10,714	10,038	89,666	81,463
361,2	Electrical transmission and distribution equipment and supplies.....	2,662	1,935	1,908	1,916	5,738	5,404	5,479	1,964	1,580	2,094	1,937	1,710	1,556	1,931	1,731	15,152	14,621
363	Household appliances.....	1,071	1,103	1,182	1,121	3,459	3,398	3,263	1,107	1,082	1,287	1,115	1,040	901	1,035	936	9,035	8,970
365	Radios and TV.....	801	925	938	937	2,859	2,708	2,460	830	787	995	782	759	619	673	591	6,755	7,571
366	Communications equipment.....	3,305	3,364	3,239	3,181	9,507	8,963	8,563	3,168	2,947	3,480	3,199	2,721	2,493	2,968	2,905	24,873	22,007
367	Electronic components.....	2,336	2,366	2,234	2,286	6,930	6,676	6,502	2,322	2,174	2,529	2,374	2,253	2,016	2,335	2,229	18,381	17,665
368	Transportation equipment.....	13,369	13,369	13,369	13,369	40,107	39,107	38,107	13,369	13,369	13,369	13,369	13,369	13,369	13,369	13,369	13,369	13,369
371	Motor vehicles and parts.....	11,979	12,134	13,378	12,257	37,622	32,737	33,086	9,857	10,248	14,397	13,045	6,824	7,243	8,271	8,986	94,317	69,751
372,6	Aircraft, missiles, and parts.....	4,827	4,423	4,498	4,734	14,459	13,626	13,868	4,459	4,167	5,258	4,820	3,679	3,902	4,339	4,327	37,012	32,118
3731	Shipbuilding and military aerospace.....	1,207	1,204	1,190	1,155	3,520	3,405	2,962	1,157	1,132	1,229	1,159	1,034	1,024	1,091	1,080	9,064	8,359
38	Instruments and related products.....	4,186	4,308	4,257	4,208	12,495	12,305	12,036	4,179	3,894	4,552	4,148	3,872	3,379	3,912	3,632	32,744	29,541
381-4	Scientific and engineering.....	2,505	2,463	2,459	2,404	7,208	6,987	6,987	2,440	2,194	2,651	2,399	2,132	1,908	2,334	2,100	19,175	17,187
382	Photographic goods.....	1,421	1,540	1,496	1,494	4,367	4,285	4,282	1,465	1,337	1,595	1,451	1,242	1,043	1,330	1,281	11,274	10,300
383	Optical goods.....	25	25	25	25	75	75	75	25	25	75	25	25	25	75	25	75	25
39	All other durable goods industries.....	7,812	8,493	8,483	8,356	25,524	24,938	24,661	8,361	7,756	9,894	8,531	7,888	6,903	7,681	7,138	66,064	60,332
Non-durable goods and industries-- Continued																		
20	Food and kindred products.....	22,708	22,638	22,676	21,931	67,307	66,528	66,435	22,639	21,057	23,171	21,769	22,021	19,822	21,260	20,360	177,034	164,109
201	Meat products.....	5,787	5,667	5,594	5,233	16,070	15,690	15,908	5,805	5,367	5,516	5,353	5,161	4,591	4,621	4,333	42,918	37,391
208	Beverages.....	2,954	3,066	3,065	3,007	9,124	8,659	8,638	3,143	3,198	3,475	3,121	3,215	3,268	3,268	3,216	23,829	22,002
209	Tobacco products.....	8,951	8,968	8,978	8,979	27,199	26,923	26,923	8,979	8,979	8,979	8,979	8,979	8,979	8,979	8,979	8,979	8,979
21	Tobacco products.....	1,186	1,195	1,154	1,034	3,263	3,287	3,305	1,218	1,186	1,149	1,046	1,100	1,073	963	1,035	8,852	8,022
22	Textile mill products.....	4,422	4,496	4,467	4,350	13,012	12,481	11,456	4,437	3,755	4,755	4,409	3,735	3,163	4,045	3,359	33,952	30,495
26	Paper and allied products.....	6,405	6,426	6,392	6,426	19,334	19,379	18,728	6,614	6,066	6,720	6,553	6,015	5,560	6,120	5,780	52,090	47,209
261-3	Pulp, paper, etc.....	1,611	1,717	1,700	1,640	5,904	5,829	5,825	1,684	1,580	1,720	1,621	1,562	1,491	1,643	1,515	11,862	11,132
264	All other paper products.....	2,000	1,964	1,895	1,932	5,904	6,052	5,841	2,088	1,861	2,037	1,939	1,728	1,862	1,746	1,695	14,386	13,761
28	Chemicals and allied products.....	15,186	15,459	15,296	14,875	44,875	44,941	44,829	14,810	14,180	16,153	15,413	13,185	12,196	13,763	13,599	121,956	109,345
281,6	Chemicals, ex- cept pharmaceuticals.....	5,300	5,471	5,456	5,381	16,135	16,058	16,122	5,195	5,066	5,736	5,559	5,279	4,983	5,279	4,983	39,760	38,760
281,4	Drugs, poison and toiletries.....	3,663	3,667	3,780	3,664	10,938	11,646	11,753	3,573	3,372	3,440	3,789	3,479	3,386	3,479	3,386	29,508	28,525
29	Petroleum and coal products.....	16,515	15,859	16,357	16,404	48,730	49,783	46,435	16,571	15,772	16,491	16,236	14,466	14,167	14,890	16,397	130,457	115,996
30	Rubber and plastics products, n.e.c.....	3,991	4,129	4,074	3,850	11,886	11,419	12,206	4,075	3,732	4,227	3,915	4,106	3,573	3,930	3,707	31,382	32,000
32	All other non-durable goods industries.....	12,414	12,736	12,308	11,993	36,304	35,480	34,519	13,142	12,123	12,266	11,430	11,586	10,607	11,908	10,295	95,006	85,355

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¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows

the supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture, kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks, and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories, new personal goods,

capital goods industries—compared to the previous producers capital goods and the defense products (non defense) categories.

Nondefense products—machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products—based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the M-175 "Shipments to Federal Government Agencies," formerly "Shipments of Defense-Oriented Industries," for the specified industries. Defense products--Based on separate reports on defense work filled by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and

The data are comparable to those published annually in the MA-175, Shipments to Federal Government Agencies (formerly Shipments of Defense-Oriented Industries), for the specified industries.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(billions of dollars)

SIC	Industry	Seasonally adjusted					Not seasonally adjusted ¹												Year-to-date	
		Monthly			Quarterly		Last 4 months				Last 4 months a year ago									
		July 1981 ²	June 1981	May 1981	II 1981	I 1981	TV 1980	Aug. 1981 ³	July 1981	June 1981	May 1981	Aug. 1981	July 1980	June 1980	May 1980					
		TOTALS																		
169, 163	All manufacturing industries.....	171,355	170,913	169,346	508,837	499,777	491,844	185,802	178,014	185,802	147,422	140,837	144,892	140,890	1,343,984	1,343,984	1,343,984	1,343,984		
149, 053	Manufacturing industries excluding transportation.....	151,702	151,856	149,247	456,989	443,887	446,295	148,844	157,668	148,844	135,497	124,899	136,774	127,209	1,194,431	1,194,431	1,194,431	1,194,431		
89, 438	Manufacturing industries with unfilled orders.....	92,257	89,475	90,182	268,697	264,758	259,084	85,318	93,441	88,712	75,758	73,701	77,285	71,084	708,100	708,100	708,100	708,100		
86, 425	Durable goods industries.....	89,440	88,403	88,184	263,647	256,383	253,912	80,307	93,480	87,680	71,133	70,674	74,435	68,160	691,136	691,136	691,136	691,136		
72, 614	Durable goods with unfilled orders.....	75,064	72,661	71,130	217,748	213,034	211,584	68,032	89,441	76,164	71,802	60,127	59,777	62,133	56,753	575,113	575,113	575,113		
82, 618	Nondurable goods industries.....	82,915	82,610	81,176	245,190	243,389	237,931	86,956	76,444	84,716	80,427	76,286	69,493	75,437	72,680	651,497	651,497	651,497		
17, 024	Industries with unfilled orders.....	17,233	16,814	17,052	50,949	49,724	47,441	1,228	13,811	17,097	16,910	15,431	13,924	14,952	14,331	133,982	133,982	133,982		
65, 614	Industries without unfilled orders.....	65,702	65,796	64,114	194,741	193,665	190,451	66,138	62,065	67,117	66,012	60,458	56,038	60,485	58,359	517,982	517,982	517,982		
MARKET CATEGORIES																				
12, 131	Home goods and apparel.....	12,878	12,776	12,083	37,187	36,769	36,486	12,088	11,782	13,158	11,486	11,027	10,688	11,006	10,174	87,457	87,457	87,457		
28, 985	Consumer staples.....	29,253	29,184	28,188	86,657	86,030	85,565	28,154	27,502	30,110	27,802	28,144	25,432	27,706	26,244	227,824	227,824	227,824		
27, 157	Equipment and defense products, except automotive.....	26,944	25,025	25,365	75,996	78,323	75,474	26,462	25,403	26,462	24,852	20,789	22,390	24,086	21,083	186,562	186,562	186,562		
13, 944	Automotive equipment.....	14,218	15,081	14,258	43,163	38,292	38,807	11,818	12,224	16,189	15,040	8,171	8,457	9,463	4,156	139,643	139,643	139,643		
11, 994	Construction materials, supplies, and intermediate products.....	12,900	13,166	12,755	38,764	39,024	38,490	12,613	12,613	14,265	13,249	12,012	11,180	11,722	11,212	100,673	100,673	100,673		
74, 960	Other materials, supplies, and intermediate products.....	76,212	75,479	76,691	227,079	221,355	218,636	71,715	69,286	77,140	76,185	65,481	62,189	65,491	62,981	601,974	601,974	601,974		
SUPPLEMENTARY SERIES ²																				
4, 996	Household durable goods industries.....	5,510	5,625	5,119	16,347	16,412	15,001	5,179	4,411	5,465	4,981	5,064	4,668	4,571	4,439	42,778	42,778	42,778		
30, 035	Capital goods industries.....	29,708	28,186	29,248	86,113	86,096	81,974	26,454	25,241	29,337	27,903	23,209	26,899	26,948	23,680	255,919	255,919	255,919		
28, 135	Nondefense.....	24,226	23,210	23,885	71,818	70,468	69,640	21,150	20,431	25,001	22,797	19,354	21,266	22,785	19,273	177,262	177,262	177,262		
5, 930	Defense.....	5,482	4,976	5,363	14,315	15,628	12,334	4,094	4,068	4,447	5,106	3,875	5,635	4,163	3,607	36,781	36,781	36,781		
INDUSTRY GROUPS AND INDUSTRIES																				
32	Durable goods industries:	4,035	4,259	4,217	12,686	12,425	12,095	4,264	4,165	4,602	4,295	3,809	3,629	3,707	3,561	33,376	33,376	33,376		
33	Stone, clay, and glass.....	11,598	11,456	11,824	34,964	34,728	37,171	10,877	10,471	11,561	11,802	10,521	8,883	8,995	8,513	94,539	94,539	94,539		
331	Primary metals.....	6,065	6,040	6,076	18,453	17,291	19,174	5,466	5,353	6,106	5,966	5,126	3,488	3,913	3,631	49,073	49,073	49,073		
333-5, 9	Blast furnaces, steel mills.....	4,235	4,235	4,235	13,322	13,746	14,625	4,349	4,071	4,386	4,673	4,313	4,221	4,296	4,406	36,816	36,816	36,816		
34	Nonferrous and other primary metal products.....	10,804	10,979	10,607	31,877	31,223	31,880	9,958	10,054	11,881	10,673	9,999	8,491	9,125	8,915	83,919	83,919	83,919		
35	Fabricated metal products.....	17,183	17,007	17,007	50,113	50,113	50,073	16,814	16,814	18,414	16,615	13,152	14,606	15,149	13,619	117,104	117,104	117,104		
353	Machinery, except electrical.....	1,486	1,469	1,469	4,335	4,335	4,366	1,498	1,434	1,241	1,270	1,270	898	714	900	11,011	11,011	11,011		
354	Engines and turbines.....	3,330	3,629	3,856	11,085	10,615	9,619	3,096	3,517	3,697	3,440	2,665	2,665	2,665	2,665	28,836	28,836	28,836		
355	Construction, mining, and material-handling equipment.....	787	729	754	2,333	2,701	2,617	808	855	855	709	635	735	1,027	828	6,828	6,828	6,828		
356	Material-handling equipment.....	1,643	1,335	1,620	4,526	4,198	4,014	1,618	1,447	1,481	1,388	1,160	1,125	1,336	1,244	10,015	10,015	10,015		
357	General industrial machinery.....	1,648	1,569	1,620	4,526	4,198	4,014	1,618	1,447	1,481	1,388	1,160	1,125	1,336	1,244	10,015	10,015	10,015		

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GOODS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted					Quarterly				Not seasonally adjusted ¹													
		Monthly					I 1981	II 1981	III 1981	IV 1980	Monthly													
		Aug. 1981P	July 1981*	June 1981	May 1981	Last 4 months					Last 4 months a year ago													
						Aug. 1981P					July 1981*	June 1981	May 1981	Aug. 1980	July 1980	June 1980	May 1980	Aug. 1980	July 1980	June 1980	May 1980			
	INDUSTRY GOODS AND INDUSTRIES-- (continued)																							
	Durable goods industries-- (continued)																							
36	Electrical machinery.....	11,718	12,055	12,600	11,771	36,281	36,371	36,109	11,483	10,517	12,951	11,570	10,829	9,056	10,517	9,793	93,836	85,795						
361,2	Electrical transmission and distribution equipment and industrial apparatus.....	2,017	1,998	1,895	2,127	5,770	5,798	5,762	2,001	1,702	2,011	2,059	1,689	1,553	1,864	1,655	15,805	14,971						
363	Household appliances.....	1,866	1,186	1,181	1,111	3,477	3,402	3,307	1,070	1,077	1,298	1,124	1,110	948	1,074	943	9,101	8,171						
366	Radio and TV.....	1,885	1,985	1,951	1,316	2,754	2,865	2,384	976	798	1,217	1,598	1,910	602	1,782	614	7,068	5,143						
366	Communication equipment.....	3,432	3,609	3,951	3,116	10,704	9,811	10,127	3,190	3,065	3,771	3,897	3,360	2,665	2,754	2,824	27,120	24,894						
367	Electronic components.....	7,401	2,347	2,321	2,549	7,405	6,620	6,895	2,313	2,088	2,486	2,458	2,026	1,774	2,276	2,121	19,153	18,282						
37	Transportation equipment.....	20,110	20,653	19,057	20,093	57,848	55,886	51,549	15,940	16,549	20,146	19,960	11,925	15,748	15,093	13,941	149,094	126,045						
372,6	Aircraft, missiles, and parts.....	5,233	6,116	4,083	5,803	13,663	16,553	11,773	3,692	4,776	4,218	5,161	3,259	6,514	5,613	4,428	37,203	42,701						
3731	Shipsbuilding and military tank vehicles.....	1,921	1,417	865	1,085	3,996	3,796	3,628	1,487	968	805	816	1,284	1,036	963	860	10,136	8,862						
3735	Instruments and related products.....	4,156	4,425	4,331	4,093	12,540	12,330	12,159	4,169	4,010	4,681	4,165	3,874	3,311	3,937	3,553	33,020	29,917						
24	All other durable goods industries.....	7,691	8,415	8,448	8,342	25,563	25,586	24,879	8,300	7,868	8,518	8,580	7,924	6,962	7,443	7,035	67,216	60,829						

Preliminary.

Revised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods: industrial--household durables, kitchen articles and pottery, cutlery, handtools, and hardware, household appliances, radio and TV, optical goods, watches, and jewelry.

Capital goods: industrial--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products--machines, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nonferrous portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and aircraft.

Defense products--based on separate reports on defense work filed by large defense contractors, in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the SA 175, Shipments to Federal Government Agencies (formerly Shipments of Defense-Industrial Products), for the specified industries.

Table 3. VALUE OF MANUFACTURES* UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	(billions of dollars)																	
		Seasonally adjusted						Quarterly											
		Monthly			Yearly			Monthly			Yearly								
		Aug. 1981 ^a	July 1981	June 1981	May 1981	T 1981	IV 1980	III 1980	II 1980	I 1980	Aug. 1981 ^a	July 1981	June 1981						
		Not seasonally adjusted ^b																	
TOTALS																			
31	All manufacturing industries.....	328,710	328,206	325,918	326,508	323,692	319,729	315,027	316,494	313,627	325,082	326,806	326,446	338,446	338,441	339,461	339,862	306,836	309,911
32	Manufacturing industries.....	210,124	210,750	210,403	209,698	207,405	206,986	200,514	197,995	207,465	210,616	211,366	211,348	211,348	211,732	199,483	199,347	198,467	202,291
33	Durable goods industries.....	317,347	316,853	314,477	314,484	312,908	308,815	304,133	298,760	301,493	311,785	315,502	314,988	316,736	294,796	299,272	296,068	298,688	
333-6	Non-durable goods industries.....	11,363	11,353	11,441	11,394	11,005	10,913	11,399	11,344	11,663	11,297	11,364	11,428	11,675	10,665	10,590	10,788	11,233	
MARKET CATEGORIES																			
34	Home goods and apparel.....	4,819	4,922	4,814	4,699	4,666	3,988	4,085	4,215	4,860	5,279	5,278	4,906	4,710	4,440	4,318	4,286	4,359	
35	Consumer staples.....	194,462	192,726	190,926	191,949	191,324	186,876	183,272	177,896	178,932	190,863	191,568	191,039	192,595	178,682	179,421	177,938	178,366	
353	Equipment and defense products, except automotive.....	17,463	17,252	17,607	17,137	17,409	17,547	17,399	17,749	17,973	17,537	17,903	17,895	17,401	17,584	17,785	17,953	18,192	
353	Construction materials, supplies, and intermediate products.....	112,206	112,776	112,531	112,772	110,206	111,277	110,270	108,635	112,637	111,403	112,667	112,636	113,705	108,785	108,338	106,091	108,997	
SUPPLEMENTARY SERIES ^b																			
353	Household durable goods industries.....	3,632	3,728	3,732	3,511	3,628	2,936	3,084	3,220	3,389	4,080	4,076	3,886	3,644	3,428	3,312	3,325	3,378	
353	Capital goods industries.....	224,926	223,533	221,984	222,118	220,323	215,028	214,413	206,684	205,936	221,089	221,738	221,577	222,829	209,636	209,676	206,278	206,352	
353	Nondefense.....	147,560	147,581	147,388	148,666	147,924	147,673	147,300	146,427	147,469	146,475	147,263	147,261	148,824	147,606	147,606	146,349	147,074	
353	Defense.....	77,366	75,952	74,696	73,632	72,398	68,335	67,113	60,207	57,101	74,614	76,465	74,336	74,189	62,812	62,371	59,929	59,278	
INDUSTRY GROUPS AND INDUSTRIES																			
Durable goods industries																			
32	Stone, clay, and glass.....	2,287	2,292	2,288	2,240	2,288	2,460	2,426	2,531	2,863	2,324	2,365	2,351	2,341	2,492	2,590	2,597	2,761	
33	Primary metals.....	28,751	29,090	28,595	29,080	28,935	30,248	28,010	25,487	29,676	28,177	28,862	29,197	30,264	26,274	25,706	25,960	27,334	
331	Iron and steel mills.....	17,054	17,105	16,897	17,128	16,926	17,439	15,742	13,258	15,859	16,628	17,068	17,471	17,982	14,341	13,607	13,709	14,389	
333-6	Nonferrous and other primary metal products.....	8,423	8,599	8,425	8,712	8,557	9,008	8,476	8,219	8,849	8,288	8,436	8,509	8,912	8,198	8,306	8,309	8,728	
34	Fabricated metal products.....	30,007	30,620	30,362	29,975	30,134	30,189	29,800	30,749	31,504	30,080	30,661	30,309	30,028	30,411	30,726	30,685	31,055	
35	Machinery, except electrical.....	75,159	74,885	75,578	75,580	74,602	74,396	72,650	71,914	75,861	75,262	75,725	75,620	72,289	72,997	72,084	72,643	72,045	
353	Engines and turbines.....	18,239	18,188	18,474	18,391	18,241	17,905	17,864	17,825	18,626	18,180	18,008	18,142	18,218	17,401	17,520	17,520	18,080	
353	Material-handling equipment.....	11,167	11,299	10,989	10,468	9,760	8,765	8,161	8,062	8,810	11,055	11,311	10,989	10,945	7,861	8,035	8,070	8,856	
354	General industrial machinery.....	6,010	6,233	6,459	6,663	7,035	7,292	7,661	7,986	8,046	6,106	6,208	6,342	7,932	7,938	7,938	7,938	7,938	
356	General industrial machinery.....	6,773	6,606	6,547	6,623	6,304	6,177	6,287	6,615	7,238	6,820	6,626	6,534	6,989	6,941	6,908	6,908	6,958	

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(millions of dollars)

SIC	Industry group	Seasonally adjusted					Quarterly				Monthly				Not seasonally adjusted ¹			
		Monthly					Quarterly				Monthly				Monthly			
		Aug. 1981 ^p	July 1981 ^p	June 1981	May 1981	I 1981	IV 1980	III 1980	II 1980	I 1980	Aug. 1981 ^p	July 1981 ^p	June 1981	May 1981	Aug. 1980	July 1980	June 1980	May 1980
	INDUSTRY GROUP AND INDUSTRIES--																	
	Continued																	
	Durable goods industries--																	
26	Electrical machinery.....	50,645	50,466	50,126	49,207	48,494	47,225	45,819	45,341	44,505	50,649	50,420	50,257	49,637	45,953	45,387	45,483	45,685
361,2	Electrical transmission and distribution equipment and																	
362	Industrial appliances.....	8,480	8,475	8,392	8,466	8,361	7,967	7,905	8,027	7,735	8,497	8,460	8,439	8,522	8,062	8,063	8,066	8,123
363	Household appliances.....	391	415	433	434	415	411	451	319	294	419	455	460	449	395	345	336	299
364	Radio and TV.....	439	407	378	389	262	245	422	416	389	605	508	388	165	322	221	228	317
365	Refrigerators.....	27	27	27	26	23	25	23	22	22	27	26	27	26	22	22	22	22
366	Communication equipment.....	26,830	27,542	26,830	26,345	25,427	23,863	22,802	22,090	22,527	27,505	27,407	27,117	23,489	22,870	22,698	22,912	22,932
367	Like transit components.....	12,270	12,205	12,207	12,141	11,733	12,019	12,135	12,695	12,854	12,440	12,363	12,390	12,226	12,342	12,631	12,873	12,932
37	Transportation equipment.....	118,586	117,456	115,515	116,900	116,198	113,043	114,513	108,540	105,682	115,066	115,476	114,900	116,679	109,578	110,505	107,909	107,623
371,6	Aircraft, missiles, and parts.....	92,574	92,166	90,504	91,319	91,299	88,371	90,466	85,924	80,345	89,857	90,625	90,015	91,055	87,000	88,020	85,408	84,134
3731	Shipbuilding and military																	
3732	tank vehicles.....	17,880	17,166	16,953	17,279	16,478	16,087	15,421	13,490	13,549	17,141	16,811	16,975	17,399	13,769	13,519	13,513	13,641
3735	Instruments and related																	
38	products.....	7,143	7,173	7,056	6,982	7,012	6,987	6,863	6,944	7,064	7,217	7,226	7,110	6,980	6,931	6,929	6,997	6,972
39	All other durable goods																	
40	industries.....	4,755	4,876	4,955	4,990	4,915	4,267	4,050	4,244	4,899	5,170	5,230	5,119	5,187	4,468	4,432	4,373	4,411

¹ Preliminary. Revised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are of the end of the period and are not adjusted for trading-day or calendar-month variations.
The supplementary series are regroupings of the separate industry categories as follows:
Household durable goods industries--Household furniture; kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radio and TV, electronic components, and miscellaneous personal goods.

Capital goods industries--Dependable to the previous producers' capital goods and the defense products (old) series categories.
Nondefense industries--Dependable to the previous producers' equipment, engine shops, electrical machinery (excluding household appliances, radio and TV, and electronic components), the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.
The data are comparable to those published annually in the WS-17, Shipments of Federal Government Services (formerly Shipments of Defense-Ordered Equipment) and the special industries.

Table 4. SALES BY MONTHLY PERIOD, INDUSTRY GROUPS, MARKET AREAS, AND AFFILIATIONS, 1981-88

SIC	Industry	Seasonally adjusted												Not seasonally adjusted ¹																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		Months						Quarterly						Monthly						Last 6 months, a year ago																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		July 1981	Aug 1981	Sept 1981	Oct 1981	Nov 1981	Dec 1981	July 1982	Oct 1982	Jan 1983	Apr 1983	July 1983	Oct 1983	Jan 1984	Apr 1984	July 1984	Oct 1984	Jan 1985	Apr 1985	July 1985	Oct 1985	Jan 1986	Apr 1986	July 1986	Oct 1986	Jan 1987	Apr 1987	July 1987	Oct 1987	Jan 1988	Apr 1988	July 1988	Oct 1988	Jan 1989	Apr 1989	July 1989	Oct 1989	Jan 1990	Apr 1990	July 1990	Oct 1990	Jan 1991	Apr 1991	July 1991	Oct 1991	Jan 1992	Apr 1992	July 1992	Oct 1992	Jan 1993	Apr 1993	July 1993	Oct 1993	Jan 1994	Apr 1994	July 1994	Oct 1994	Jan 1995	Apr 1995	July 1995	Oct 1995	Jan 1996	Apr 1996	July 1996	Oct 1996	Jan 1997	Apr 1997	July 1997	Oct 1997	Jan 1998	Apr 1998	July 1998	Oct 1998	Jan 1999	Apr 1999	July 1999	Oct 1999	Jan 2000	Apr 2000	July 2000	Oct 2000	Jan 2001	Apr 2001	July 2001	Oct 2001	Jan 2002	Apr 2002	July 2002	Oct 2002	Jan 2003	Apr 2003	July 2003	Oct 2003	Jan 2004	Apr 2004	July 2004	Oct 2004	Jan 2005	Apr 2005	July 2005	Oct 2005	Jan 2006	Apr 2006	July 2006	Oct 2006	Jan 2007	Apr 2007	July 2007	Oct 2007	Jan 2008	Apr 2008	July 2008	Oct 2008	Jan 2009	Apr 2009	July 2009	Oct 2009	Jan 2010	Apr 2010	July 2010	Oct 2010	Jan 2011	Apr 2011	July 2011	Oct 2011	Jan 2012	Apr 2012	July 2012	Oct 2012	Jan 2013	Apr 2013	July 2013	Oct 2013	Jan 2014	Apr 2014	July 2014	Oct 2014	Jan 2015	Apr 2015	July 2015	Oct 2015	Jan 2016	Apr 2016	July 2016	Oct 2016	Jan 2017	Apr 2017	July 2017	Oct 2017	Jan 2018	Apr 2018	July 2018	Oct 2018	Jan 2019	Apr 2019	July 2019	Oct 2019	Jan 2020	Apr 2020	July 2020	Oct 2020	Jan 2021	Apr 2021	July 2021	Oct 2021	Jan 2022	Apr 2022	July 2022	Oct 2022	Jan 2023	Apr 2023	July 2023	Oct 2023	Jan 2024	Apr 2024	July 2024	Oct 2024	Jan 2025	Apr 2025	July 2025	Oct 2025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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31	All manufacturing industries.....	271,660	275,862	286,739	269,286	266,654	257,988	236,43	236,421	231,486	21,886	22,486	271,609	255,938	256,229	236,910	258,418																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted					Quarterly					Not seasonally adjusted				
		Monthly					I					Last 4 months				
		Aug. 1981 ^a	July 1981 ^a	June 1981	May 1981	I	II	III	IV	I	Aug. 1981 ^a	July 1981 ^a	June 1981	May 1981	Aug. 1980	July 1980
INDUSTRY GROUPS AND INDUSTRIES--																
Continued																
26	Electrical machinery.....	26,169	25,987	25,689	25,457	25,057	24,383	24,350	24,165	23,788	26,187	26,165	26,173	26,111	24,214	24,612
361.2	Electrical transmission and distribution apparatus.....	4,596	4,573	4,488	4,428	4,263	4,163	4,222	4,263	4,162	4,556	4,558	4,526	4,520	4,221	4,298
363	Household appliances.....	1,999	1,981	1,961	1,942	1,861	1,811	1,822	1,861	1,769	1,963	1,963	1,931	1,921	1,769	1,861
365	Communication equipment.....	8,868	8,889	8,886	8,835	8,774	8,630	8,589	8,178	7,867	8,867	8,854	8,731	8,465	8,388	8,193
367	Electronic components.....	4,832	4,849	4,795	4,741	4,560	4,557	4,450	4,422	4,253	4,832	4,887	4,701	4,798	4,456	4,493
37	Transportation equipment.....	38,674	38,949	38,628	38,427	38,111	36,810	35,442	34,429	33,413	38,985	38,534	38,537	38,478	35,437	34,070
371	Motor vehicles and parts.....	9,071	9,397	9,275	9,376	9,605	9,694	9,409	9,865	9,388	9,303	8,788	9,125	9,255	9,331	8,700
373.6	Shipbuilding and military tank vehicles.....	25,156	24,840	24,421	24,401	24,001	22,918	21,853	21,169	19,639	25,252	25,247	24,755	24,460	21,221	20,419
379	Instrument and related products.....	2,482	2,423	2,236	2,274	2,612	2,265	2,105	2,130	1,922	2,521	2,550	2,621	2,726	2,198	2,122
38	Scientific and engineering instruments.....	9,573	9,569	9,603	9,645	9,380	9,281	9,037	8,994	8,727	9,599	9,645	9,711	9,854	9,101	9,134
381.4	Photocopying equipment.....	9,524	9,568	9,622	9,639	9,353	9,244	9,037	8,994	8,727	9,599	9,645	9,711	9,854	9,101	9,134
386	All other durable goods industries.....	4,224	4,224	4,247	4,247	4,239	4,243	4,172	4,135	3,918	4,284	4,284	4,231	4,238	3,918	4,205
25	Non-durable goods industries.....	14,867	14,715	14,508	14,568	14,213	14,046	14,175	13,923	14,040	14,774	14,667	14,618	14,677	14,500	14,032
20	Food and kindred products.....	21,603	21,836	22,114	22,237	22,325	22,358	22,368	21,263	21,377	21,117	20,418	20,774	21,276	21,389	20,811
201	Meat products.....	2,164	2,175	2,267	2,272	2,271	2,138	2,005	2,051	2,082	2,118	2,082	2,082	2,082	2,053	1,997
202	Dairy products.....	1,515	1,462	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468
207	Pastry products.....	1,515	1,462	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468	1,468
209	All other food products.....	12,602	12,564	12,426	12,551	12,476	12,438	12,480	11,860	11,878	11,221	11,464	11,599	11,672	11,432	11,739
21	Tobacco products.....	3,931	3,765	3,570	3,699	3,689	3,507	3,628	3,507	3,487	3,605	3,551	3,403	3,592	3,381	3,379
22	Textile mill products.....	6,559	6,608	6,604	6,562	6,518	6,386	6,102	6,250	6,274	6,588	6,588	6,339	6,733	6,708	6,377
221	Woolen mill products.....	4,455	4,429	4,332	4,284	4,286	4,188	4,188	4,188	4,188	4,188	4,188	4,188	4,188	4,188	4,188
222	Woolen mill products.....	2,104	2,179	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272
223	Woolen mill products.....	2,104	2,179	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272
224	Woolen mill products.....	2,104	2,179	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272
225	Woolen mill products.....	2,104	2,179	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272
226	Woolen mill products.....	2,104	2,179	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272
227	Woolen mill products.....	2,104	2,179	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272
228	Woolen mill products.....	2,104	2,179	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272
229	Woolen mill products.....	2,104	2,179	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272	2,272
23	Chemical and allied products.....	20,220	20,116	20,218	20,029	19,488	18,489	18,478	19,211	18,346	19,668	19,993	19,902	20,011	18,382	18,733
281.6	Chemical and allied products.....	6,870	6,849	6,961	6,980	6,693	6,244	6,200	6,714	6,275	6,822	6,856	6,822	6,880	6,701	6,532
283.4	Chemical and allied products.....	5,840	5,823	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919	5,919
284	Petroleum and coal products.....	9,169	9,164	9,096	9,078	9,085	8,240	8,105	8,711	7,966	9,232	9,401	9,761	10,004	8,493	8,315
30	Rubber and plastic products.....	5,578	5,677	5,634	5,616	5,538	5,279	5,232	5,603	5,759	5,492	5,638	5,660	5,706	5,181	5,631
32	All other non-durable goods industries.....	15,140	14,982	14,817	15,103	14,656	14,353	14,243	14,241	13,762	15,603	15,750	15,738	15,653	14,704	15,146
31	Textile mill products.....	15,140	14,982	14,817	15,103	14,656	14,353	14,243	14,241	13,762	15,603	15,750	15,738	15,653	14,704	15,146

Preliminary.

^a Inventories and non-inventories for the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories as of the end of the period and are not adjusted for trading-day or calendar-month variations.

^b The supplementary series are regroupings of the separate industry categories as follows:

1. Non-durable goods industries--Household furniture, kitchen articles and polsters; cutlery, hardware, household appliances, radio and TV, optical instruments, watches and clocks, and capital goods industries--Capital goods and the defense products (old series) categories.

2. Durable goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

3. Non-durable goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

4. Non-durable goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

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100. Non-durable goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Table 5. VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION BY INDUSTRY GROUP
(Millions of dollars)

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent changes							Revisions ²		
	Month-to-month			Average monthly rates of change ¹				Year ago Aug. 1980	Average monthly	
	July 1981- Aug. 1981	June 1981- July 1981	May 1981- June 1981	Second quarter 1981	First quarter 1981	Fourth quarter 1980	Sept. 1980 through Aug. 1981		Aug. 1980 through July 1981	Aug. 1976-1980
Shipments:										
All manufacturing industries.....	-0.8	-0.8	+2.4	+1.1	+0.4	+1.4	+0.9	0.5	0.3	0.4
Durable goods industries.....	-1.4	-1.9	+2.4	+1.4	+0.6	+1.5	+1.1	-	0.4	0.2
Nondurable goods industries.....	-0.2	+0.3	+2.3	+0.8	+0.2	+1.3	+0.8	0.2	0.4	0.4
Inventories:										
All manufacturing industries.....	+0.3	+0.8	+0.2	+0.4	+1.1	+0.1	+0.5	-	0.1	-
New orders:										
All manufacturing industries.....	-1.9	+0.8	+0.9	+0.7	+0.1	+1.5	+0.9	0.2	0.4	0.5
Durable goods industries.....	-3.5	+1.3	+0.2	+0.6	+0.1	+1.8	+1.0	1.2	0.6	0.9
Nondurable goods industries.....	-0.1	+0.4	+1.8	+0.8	+0.1	+1.3	+0.7	0.6	0.4	0.4
Unfilled orders:										
Durable goods industries.....	+0.2	+0.8	-0.2	+0.2	+0.4	+0.5	+0.4	0.1	0.1	0.1

- Represents zero.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Aug. 1981 ^P	July 1981 ^T	June 1981	May 1981	Aug. 1981 ^P	July 1981 ^T	June 1981	May 1981
All manufacturing industries.....	1.62	1.60	1.57	1.61	3.70	3.65	3.62	3.69
Durable goods industries.....	2.12	2.08	2.01	2.05	4.61	4.36	4.30	4.40
Stone, clay, and glass products.....	1.68	1.56	1.57	1.56	0.65	0.62	0.63	0.61
Primary metals.....	2.04	2.00	1.98	1.96	2.41	2.43	2.42	2.46
Fabricated metals.....	1.94	1.90	1.89	1.87	3.12	3.16	3.10	3.07
Machinery, except electrical.....	2.44	2.40	2.33	2.39	4.77	4.74	4.72	4.86
Electrical machinery.....	2.27	2.22	2.20	2.20	4.39	4.31	4.29	4.24
Transportation equipment.....	2.04	2.08	1.89	2.01	10.72	10.93	10.16	11.11
Instruments and related products.....	2.29	2.22	2.26	2.29	1.71	1.67	1.66	1.66
Nondurable goods industries.....	1.09	1.10	1.10	1.13	0.67	0.66	0.68	0.69
Food and kindred products.....	0.95	0.96	0.96	1.01	(X)	(X)	(X)	(X)
Tobacco products.....	3.31	3.15	3.09	3.58	(X)	(X)	(X)	(X)
Textile mill products.....	1.48	1.47	1.48	1.51	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.32	1.30	1.30	1.28	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.33	1.30	1.32	1.35	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.55	0.61	0.61	0.63	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.40	1.37	1.38	1.46	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. ^TRevised. (X) Not applicable.¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums, farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey provides broad-based monthly statistical data on economic conditions in the domestic manufacturing sector. It is designed to measure current industrial activity and to provide an indication of future trends. The data are used extensively by the executive branch of the Government in developing economic, fiscal, and monetary policy; by the Bureau of Economic Analysis (BEA) as components of the gross national product estimates; and by trade associations, corporate economists, and other members of the business community as an analytical tool in their assessment of the current and future economic condition of the country.

The M3 shipments and inventory data are comparable to the totals published in the Annual Survey of Manufactures (ASM). The ASM is a sample survey of approximately 70,000 manufacturing establishments drawn from a 5-year census of manufacturing universe of about 350,000 manufacturing establishments. In the ASM, each manufacturing location reports data on value of shipments, beginning and end-of-year inventories, as well as various other economic variables.

The monthly M3 estimates through 1980 are based on information obtained from approximately 4,500 reporting units and include most manufacturing companies with 1,000 or more employees. In addition, selected smaller companies are included to strengthen the sample coverage in individual industry categories. For firms which operate in a single M3 industry category, the reporting unit typically comprises all operations of the company. At the request of the Census Bureau, most large, diversified companies file separate reports for divisions which operate in different industrial areas.

Each company or reporting unit of a company in the survey is classified into 1 of 79 industry categories for which separate estimates are made based on the major activity of the reporting unit. Some reporting units include industry activities outside the M3 category in which they are classified. The survey methodology assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category.

The M3 series is periodically benchmarked to the Census of Manufactures and the ASM for shipments and inventories. The most recent benchmark included data for 1977 and 1978. Since benchmark data for unfilled orders are not available, levels are based upon the ratio of unfilled orders to shipments of reporting companies. In the 1977-1978 benchmark report, unfilled orders levels were revalued based on unfilled orders to shipments ratios of reporting companies in the monthly M3 survey; the MA-300, a one-time annual supplemental survey of multi-establishment companies; and the ASM for single-establishment companies.

MONTHLY ESTIMATING PROCEDURE

The monthly estimates of shipments, unfilled orders, and total inventories are derived for each industry category by

multiplying the industry estimate for the previous month by the percentage change from the previous month for companies reporting in the current month.

Though collected as a separate item, new orders are not calculated according to the standard ratio-estimate procedure. The reason for this is that not all companies report new orders and some that do report this item limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. New orders are, therefore, computed by adjusting the current month's shipments by the change in the backlog of unfilled orders. (New orders equal current month shipments plus current month unfilled orders minus prior month unfilled orders.) Thus, the estimate of new orders includes orders that are received and filled in the same month as well as new orders that have not yet been filled. Also included are the effects of cancellations and modifications on previously reported orders.

SEASONAL ADJUSTMENT

The monthly data on shipments, inventories, and unfilled orders are adjusted for seasonality at the most detailed level tabulated in the survey, using the X-11 variant of the Census Bureau's seasonal adjustment program. Data from January 1958 through December 1980 are included in the calculations of the factors used in this publication.

Seasonally adjusted industry aggregates are derived by adding seasonally adjusted components rather than by direct seasonal adjustment of the aggregates. New orders data are not independently seasonally adjusted but are derived at the most detailed levels from the seasonally adjusted shipments and the change in the seasonally adjusted unfilled orders and then similarly aggregated.

EXPLANATION OF TERMS

Value of Shipments—The shipments estimates published in the monthly survey are equivalent to value of shipments as reported in the ASM which are net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments is the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the shipbuilding industry, the value of shipments in a given time period varies considerably from the value of work done because of the long lead time between the input of the materials and labor and the delivery of the completed ship. For this industry and for aircraft and missile producers working under cost-plus contracts, the value of work done during the year is requested rather than the value of shipments.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and M3 industry

category levels since the products of some four-digit SIC industries are used as materials by other industries within the same industry aggregate. The significance of the duplication within the specific M3 industry categories varies depending on their four-digit industry composition. It is most pronounced in a few highly integrated industry areas, such as primary metals and motor vehicles and parts.

For multiunit companies, the M3 reports received each month typically are not plant reports but are company or divisional level reports that encompass groups of plants. The actual sales reported are usually net sales and receipts from customers and exclude the duplication of interplant transfers. The reported sales are used to calculate month-to-month changes which bring forward the plant-based shipments for the industry category as estimated in the ASM.

Inventories—In the monthly survey and in the ASM, respondents are asked to report their inventories at book values. Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the value of aggregate inventories for all plants in an industry is not precise.

There are also some inconsistencies between the M3 company or divisional reported inventory levels as compared with the ASM establishment reported levels. The change in the value of inventories, month-to-month as well as year-to-year, is considered to have greater significance and reliability.

Inventory data are requested from respondents by stage of fabrication, i.e., finished goods, work in process, and raw materials and supplies. However, the quality of these data is limited due to lower response rates and the inclusion of the same type of inventory under different stages of fabrication in the aggregate statistics.

New Orders Received and Unfilled Orders—Orders as reported in the monthly survey are net of cancellations received during the month on orders previously reported. They include orders received and filled during the month as well as orders received for future delivery. They also include the net sales value of contract changes which increase or decrease the sales value of the unfilled orders to which they relate. Orders are defined to include only those supported by binding legal documents such as signed contracts, letters of award, or letters of intent, although in some industries this definition may not be strictly applicable. In the case of letters of intent, the full amount of the sales value is included if the parties are in substantial agreement on the amount; otherwise, only the funds specifically authorized to be expended are included.

Unfilled orders include orders as defined above that have not been reflected as shipments. Generally, unfilled orders at the end of the reporting period are equal to unfilled orders at the beginning of the period plus net new orders received less net shipments.

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Manufacturers' Shipments, Inventories, and Orders

SEPTEMBER 1981

M3-1(81)-9

For Wire Transmission 3:00 P.M. E.D.T. Monday, November 2, 1981

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in September decreased \$1.5 billion or 0.9 percent to \$168.5 billion the Department of Commerce, Bureau of the Census reported today. Excluding orders for defense capital goods, the decline was \$2.6 billion or 1.6 percent.

New orders in the durable goods industries declined \$1.6 billion or 1.8 percent to \$85.8 billion. The decline for new orders was revised from the 2.9 percent decline reported earlier. Most of the revision was due to more complete reporting in the machinery industries.

Within the durable goods industries, new orders for transportation equipment showed the sharpest drop, down \$1.5 billion or 7.3 percent from August to \$18.9 billion. Other major durable goods industries reporting declines were primary metals, down \$0.3 billion or 2.2 percent; and nonelectrical machinery down \$0.5 billion or 3.0 percent. New orders for electrical machinery were up in September \$0.4 billion or 3.2 percent. Excluding order increases for defense communication equipment, electrical machinery orders declined 2.6 percent.

New orders for the nondefense capital goods industries as a group declined \$2.0 billion or 8.0 percent to \$22.7 billion. Most of the nondefense components were down, with the largest occurring in the aircraft and parts industries. New orders for defense capital goods were up \$1.0 billion or 18.1 percent to \$6.8 billion, as new orders for aircraft parts and communication equipment more than offset a large decline in the shipbuilding and military tanks category.

Manufacturers' shipments declined slightly in September. Shipments for the month were valued at \$169.1 billion, down \$0.4 billion or 0.2 percent for August. This is the third consecutive monthly decline in shipments, following decreases of 0.7 and 0.5 percent in July and August respectively.

The largest shipments declines in the durable goods sector were in the motor vehicle and parts industry, down \$0.4 billion or 3.4 percent to \$11.9 billion, and the primary metals industries down \$0.4 billion or 3.6 percent to \$11.5 billion.

Shipments by nondurable goods manufacturers increased \$0.3 billion or 0.4 percent in September from August. A decline in petroleum shipments of \$0.5 billion or 2.9 percent, the only

significant decrease, was more than offset by small increases in the other categories.

The value of the orders backlog of manufacturers declined in September in \$0.6 billion or 0.2 percent to \$328.1 billion. Excluding the backlog of defense orders, manufacturers unfilled orders declined 1.2 percent. The pattern of change in the value of unfilled orders was mixed. Increases in aircraft and electrical machinery backlogs, both heavily influenced by defense orders, partially offset declines in many of the other major industry categories.

The book value of manufacturers inventories increased in September \$3.0 billion or 1.1 percent from August to \$276.4 billion. This is the largest one month increase since the 1.0 percent in February. Virtually all of the September increase occurred in the durable goods sector where inventories were valued at \$185.0 billion, up \$2.8 billion or 1.5 percent from August. Nondurable goods industries showed a small increase from August as a decline in petroleum product inventories was offset by increases in nearly all of the other categories. The inventory to shipments ratio for September is 1.63. The ratio in August was 1.61, in July, 1.60, and in June, 1.57, the low point this year.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for October is scheduled for release on November 24, 1981, and the full report is scheduled for release on December 3, 1981.

A description of the survey methodology and related information may be found in the summary report in this series for 1980 M31.10 Manufacturers Shipments, Inventories and Orders: 1972-1980, issued July 1981.

¹The seasonally adjusted estimate of shipments for motor vehicle assembly operations for the third quarter was revised upward \$0.8 billion or approximately \$0.3 billion per month. The seasonally unadjusted automotive data are not subject to any special estimating procedure:

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURES' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(Millions of dollars)

SIC	Industry	Seasonally adjusted						Quarterly						Monthly						Not seasonally adjusted ¹						Year 1, date		
		Monthly						Quarterly			Last 4 months						Monthly						Last 4 months a year ago					
		Sept. 1981	Aug. 1981	July 1981	June 1981	May 1981	April 1981	I 1981	II 1981	III 1981	Sept. 1981	Aug. 1981	July 1981	June 1981	May 1981	April 1981	Sept. 1980	Aug. 1980	July 1980	June 1980	May 1980	April 1980	Sept. 1979	Aug. 1979	July 1979	June 1979	May 1979	April 1979
36	Durable goods and industries--Continued	11,656	11,682	11,713	11,679	35,051	34,649	33,101	34,649	33,101	12,325	11,402	10,351	12,330	11,169	10,263	9,150	10,714	1,215	92,632								
261,2	Electrical machinery.....	1,864	2,045	1,915	1,948	5,824	5,738	5,404	5,738	5,404	1,408	1,398	1,680	2,094	1,871	1,717	1,576	1,951	17,564	18,792								
363	Household appliances.....	1,118	1,075	1,033	1,082	3,259	3,259	3,259	3,259	3,259	1,126	1,126	1,126	1,126	1,126	1,126	1,126	1,126	1,126	1,126	1,126							
369	Communications equipment.....	3,256	3,277	3,364	3,239	9,897	9,507	8,893	9,507	8,893	3,355	3,140	2,947	3,480	2,947	2,721	2,493	2,721	2,947	28,200	28,991							
367	Electronic components.....	2,380	2,349	2,369	2,354	7,119	6,930	6,906	6,930	6,906	2,509	2,299	2,114	2,322	2,318	2,225	2,076	2,225	2,318	19,979	19,979							
371	Transportation equipment.....	19,053	19,431	18,967	20,440	57,451	58,531	52,732	58,531	52,732	18,497	16,547	16,373	21,924	17,796	12,452	13,147	14,007	167,042	136,836								
372	Motor vehicles and parts.....	11,946	12,370	12,590	13,378	36,706	37,622	32,737	37,622	32,737	11,178	9,497	10,228	12,590	10,796	6,824	7,243	8,711	105,387	80,527								
374	Parts, accessories, and related products.....	4,997	4,827	4,493	4,898	14,277	14,459	13,626	14,459	13,626	5,237	4,462	4,167	5,238	4,843	3,079	3,902	4,339	42,552	36,961								
3731	Shipbuilding and military tank vehicles.....	1,216	1,261	1,204	1,190	3,681	3,520	3,405	3,520	3,405	1,216	1,208	1,132	1,229	1,084	1,034	1,074	1,091	3,351	3,443								
38	Instruments and related products.....	4,305	4,205	4,308	4,257	12,638	12,655	12,308	12,655	12,308	4,256	4,138	3,894	4,256	4,138	3,894	3,872	3,730	17,357	17,357								
381-4	Photographic goods.....	1,508	1,416	1,540	1,499	7,454	7,208	7,105	7,208	7,105	1,627	1,460	1,437	1,591	1,378	1,232	1,243	1,330	21,431	19,565								
24	All other durable goods industries.....	7,814	7,860	8,493	8,483	24,167	25,524	24,938	25,524	24,938	8,594	8,411	7,756	8,984	8,691	7,888	6,903	7,681	74,708	69,023								
20	Nondurable goods industries	22,495	22,453	22,638	22,676	67,586	67,307	66,538	67,307	66,538	23,397	22,394	21,057	23,171	23,002	22,721	19,822	21,250	200,186	187,111								
201	Food and kindred products.....	5,828	5,799	5,667	5,594	17,294	16,070	15,690	16,070	15,690	5,758	5,817	5,367	5,516	5,186	5,161	4,591	4,591	48,688	44,577								
208	Beverages.....	2,913	2,955	3,066	3,065	8,934	9,124	8,629	9,124	8,629	2,965	3,144	3,194	3,475	3,194	3,131	3,131	3,131	27,575	25,489								
209	Tobacco products.....	8,885	8,795	8,968	8,999	26,488	27,211	27,887	27,211	27,887	9,634	8,575	7,996	9,234	10,562	9,889	7,712	7,712	80,827	78,412								
21	Textile mill products.....	1,211	1,186	1,195	1,154	3,592	3,283	3,287	3,283	3,287	1,218	1,218	1,186	1,149	1,328	1,100	1,042	9,057	10,042	9,057								
22	Textile mill products.....	4,455	4,414	4,396	4,467	13,365	13,012	12,481	13,012	12,481	4,743	4,436	4,175	4,743	4,436	4,175	3,735	3,735	38,668	37,376								
26	Paper and allied products.....	6,012	6,446	6,393	6,392	19,551	19,334	19,379	19,334	19,379	6,755	6,658	6,106	6,755	6,658	6,106	5,599	5,599	67,171	63,596								
261-3	Pulp, paper, etc.....	3,619	3,620	3,612	3,612	10,651	10,651	10,651	10,651	10,651	3,619	3,619	3,619	3,619	3,619	3,619	3,619	3,619	14,438	13,596								
264	Chemical and allied products.....	1,905	2,015	1,964	1,893	5,884	5,904	6,052	5,904	6,052	2,065	2,115	1,861	2,065	2,115	1,861	1,911	1,911	15,438	13,326								
28	Chemicals and allied products.....	15,793	15,458	15,459	15,794	46,710	44,875	44,941	44,875	44,941	16,414	15,055	14,180	16,135	15,055	13,485	12,136	13,485	138,420	125,421								
281-6	Industrial chemicals, except pigments.....	5,367	5,374	5,471	5,456	16,212	16,135	16,058	16,135	16,058	5,286	5,197	5,066	5,734	4,930	4,584	4,794	4,794	42,261	40,581								
283-4	Pharmaceuticals.....	3,113	3,113	3,067	3,067	9,380	9,380	9,380	9,380	9,380	3,113	3,113	3,113	3,113	3,113	3,113	3,113	3,113	31,421	31,421								
29	Rubber and plastics products.....	15,937	16,469	15,859	16,371	48,201	48,731	49,783	48,731	49,783	15,921	16,468	15,722	16,468	15,722	14,669	14,669	14,669	156,715	135,089								
30	n.e.c.....	3,940	3,956	4,129	4,074	12,025	11,886	11,434	11,886	11,434	4,056	4,040	3,732	4,237	4,140	4,106	3,573	3,573	35,003	36,160								
23	All other nondurable goods industries.....	12,354	12,736	12,398	12,398	37,691	36,304	35,480	36,304	35,480	13,612	13,086	11,173	12,266	12,337	11,836	10,607	10,607	108,862	97,942								
21	Preliminary.																											

¹Revised.

Figures and not orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture, kitchen appliances and pottery, cutlery, handtools, and hardware; household appliances; radio and TV; electronic components, and consumer personal goods.
Nondurable goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.
Defense products--Comparable to the previous producers' capital goods and the defense products (old series) categories.
Nondefense products--Comparable to the previous producers' capital goods and the defense products (old series) categories.
Defense products--Based on separate reports on defense work filed by large-defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.
The data are comparable to those published annually in the MA 175. Shipments to Federal Government Agencies (formerly Shipments of Government Industries) to the shipbuilding industries.

Millions of dollars

Industry	Seasonally adjusted					Not seasonally adjusted					All industry				
	Manufactures					New orders					Manufactures				
	1966	1967	1968	1969	1970	1966	1967	1968	1969	1970	1966	1967	1968	1969	1970
TOTALS	100,000	112,111	127,222	142,333	157,444	100,000	112,111	127,222	142,333	157,444	100,000	112,111	127,222	142,333	157,444
All manufacturing industries.....	100,000	112,111	127,222	142,333	157,444	100,000	112,111	127,222	142,333	157,444	100,000	112,111	127,222	142,333	157,444
Manufacturing industries.....	100,000	112,111	127,222	142,333	157,444	100,000	112,111	127,222	142,333	157,444	100,000	112,111	127,222	142,333	157,444
Food, kindred products.....	10,000	11,211	12,722	14,233	15,744	10,000	11,211	12,722	14,233	15,744	10,000	11,211	12,722	14,233	15,744
Textile mill product.....	8,000	9,211	10,722	12,233	13,744	8,000	9,211	10,722	12,233	13,744	8,000	9,211	10,722	12,233	13,744
Lumber and wood products.....	5,000	5,666	6,333	7,000	7,666	5,000	5,666	6,333	7,000	7,666	5,000	5,666	6,333	7,000	7,666
Durable goods industries.....	71,569	74,211	81,433	88,655	95,877	71,569	74,211	81,433	88,655	95,877	71,569	74,211	81,433	88,655	95,877
Durable goods with unfilled orders.....	48,796	51,438	56,855	62,272	67,689	48,796	51,438	56,855	62,272	67,689	48,796	51,438	56,855	62,272	67,689
Nondurable goods industries.....	8,796	9,773	10,755	11,737	12,719	8,796	9,773	10,755	11,737	12,719	8,796	9,773	10,755	11,737	12,719
Industries, goods unfilled orders.....	17,148	18,360	19,572	20,784	21,996	17,148	18,360	19,572	20,784	21,996	17,148	18,360	19,572	20,784	21,996
Industries without unfilled orders.....	42,658	45,078	48,387	51,696	55,005	42,658	45,078	48,387	51,696	55,005	42,658	45,078	48,387	51,696	55,005
MARKET CATEGORIES															
Home goods and apparel.....	11,409	12,521	13,633	14,745	15,857	11,409	12,521	13,633	14,745	15,857	11,409	12,521	13,633	14,745	15,857
Household appliances.....	29,516	31,628	33,740	35,852	37,964	29,516	31,628	33,740	35,852	37,964	29,516	31,628	33,740	35,852	37,964
Furniture.....	11,376	12,488	13,600	14,712	15,824	11,376	12,488	13,600	14,712	15,824	11,376	12,488	13,600	14,712	15,824
Automotive equipment.....	11,376	12,488	13,600	14,712	15,824	11,376	12,488	13,600	14,712	15,824	11,376	12,488	13,600	14,712	15,824
Construction materials, supplies, and intermediate products.....	11,376	12,488	13,600	14,712	15,824	11,376	12,488	13,600	14,712	15,824	11,376	12,488	13,600	14,712	15,824
Intermediate products.....	76,897	81,936	86,975	91,994	97,013	76,897	81,936	86,975	91,994	97,013	76,897	81,936	86,975	91,994	97,013
SUPPLEMENTARY SERIES															
Household durable goods index.....	5,268	5,882	6,496	7,110	7,724	5,268	5,882	6,496	7,110	7,724	5,268	5,882	6,496	7,110	7,724
Capital goods industries.....	29,527	31,639	33,751	35,863	37,975	29,527	31,639	33,751	35,863	37,975	29,527	31,639	33,751	35,863	37,975
Nonfarm construction.....	27,724	29,836	31,948	34,060	36,172	27,724	29,836	31,948	34,060	36,172	27,724	29,836	31,948	34,060	36,172
Defense.....	6,603	7,217	7,831	8,445	9,059	6,603	7,217	7,831	8,445	9,059	6,603	7,217	7,831	8,445	9,059
INDUSTRY GROUPS AND INDUSTRIES															
Durable goods industries	3,692	4,206	4,720	5,234	5,748	3,692	4,206	4,720	5,234	5,748	3,692	4,206	4,720	5,234	5,748
Stone, clay, and glass.....	11,346	12,458	13,570	14,682	15,794	11,346	12,458	13,570	14,682	15,794	11,346	12,458	13,570	14,682	15,794
Primary metals.....	6,053	6,667	7,281	7,895	8,509	6,053	6,667	7,281	7,895	8,509	6,053	6,667	7,281	7,895	8,509
Black iron and steel mills.....	4,326	4,940	5,554	6,168	6,782	4,326	4,940	5,554	6,168	6,782	4,326	4,940	5,554	6,168	6,782
Metal products.....	9,887	10,999	12,111	13,223	14,335	9,887	10,999	12,111	13,223	14,335	9,887	10,999	12,111	13,223	14,335
Fabricated metal products.....	17,137	18,249	19,361	20,473	21,585	17,137	18,249	19,361	20,473	21,585	17,137	18,249	19,361	20,473	21,585
Machinery, except electrical.....	1,553	1,665	1,777	1,889	2,001	1,553	1,665	1,777	1,889	2,001	1,553	1,665	1,777	1,889	2,001
Engines and turbines.....	3,353	3,629	3,905	4,181	4,457	3,353	3,629	3,905	4,181	4,457	3,353	3,629	3,905	4,181	4,457
Transportation equipment.....	738	799	860	921	982	738	799	860	921	982	738	799	860	921	982
Material-handling equipment.....	1,320	1,432	1,544	1,656	1,768	1,320	1,432	1,544	1,656	1,768	1,320	1,432	1,544	1,656	1,768
General industrial machinery.....	1,320	1,432	1,544	1,656	1,768	1,320	1,432	1,544	1,656	1,768	1,320	1,432	1,544	1,656	1,768

See footnotes at end of table.

See footnotes at end of table.

Table 4. VALUE OF FACTORIES INVENTORIES AND STOCKS OF MANUFACTURED GOODS

1954

Industries	INDUSTRY GROUPS									
	MANUFACTURING INDUSTRIES					NONMANUFACTURING INDUSTRIES				
	1949	1951	1953	1954	1955	1949	1951	1953	1954	1955
311 Handicrafting industries...	27,467	271,822	286,269	286,269	286,269	11,428	11,428	11,428	11,428	11,428
312 Manufacturing industries...	57,148	254,600	232,923	232,923	232,923	32,111	32,111	32,111	32,111	32,111
313 Manufacturing industries with unfinished orders...	189,761	166,459	185,010	185,010	185,010	189,761	189,761	189,761	189,761	189,761
314 Unfilled orders...	185,396	162,231	180,800	180,800	180,800	185,396	185,396	185,396	185,396	185,396
315 Durable goods inventories...	198,477	188,146	196,747	196,747	196,747	198,477	198,477	198,477	198,477	198,477
316 Durable goods with unfinished orders...	61,361	61,189	61,012	61,012	61,012	61,361	61,361	61,361	61,361	61,361
317 Non-durable goods inventories...	25,766	25,550	26,493	26,493	26,493	25,766	25,766	25,766	25,766	25,766
318 Non-durable goods with unfinished orders...	11,431	11,431	11,431	11,431	11,431	11,431	11,431	11,431	11,431	11,431
319 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
320 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
321 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
322 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
323 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
324 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
325 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
326 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
327 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
328 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
329 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
330 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
331 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
332 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
333 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
334 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
335 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
336 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
337 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
338 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
339 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
340 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
341 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
342 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
343 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
344 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
345 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
346 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
347 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
348 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
349 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
350 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
351 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
352 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
353 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
354 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
355 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452
356 Intermediate products...	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452	109,452

See footnotes at end of table.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

Preliminary. Revised.

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent changes							Revisions ²		
	Month-to-month			Average monthly rate of change ¹				Year ago Sept. 1980	Average monthly	
	Aug. 1981- Sept. 1981	July 1981- Aug. 1981	June 1981- July 1981	Third quarter 1981	Second quarter 1981	First quarter 1981	Oct. 1980 through Sept. 1981		Sept. 1980 through Aug. 1981	Sept. 1976-1980
Shipments:										
All manufacturing industries.....	-0.2	-0.5	-0.7	-0.5	+1.1	+0.4	+0.6	0.8	0.3	0.1
Durable goods industries.....	-0.8	-0.5	-1.6	-1.0	+1.4	+0.6	+0.7	0.5	0.4	0.2
Nondurable goods industries.....	+0.4	-0.4	+0.3	+0.1	+0.8	+0.2	+0.6	1.1	0.4	0.4
Inventories:										
All manufacturing industries.....	+1.1	+0.5	+0.8	+0.8	+0.4	+1.1	+0.6	0.4	0.2	0.2
New orders:										
All manufacturing industries.....	-0.9	-1.5	+1.0	-0.5	+0.7	+0.1	+0.5	0.7	0.4	0.5
Durable goods industries.....	-1.8	-2.6	+1.6	-1.0	+0.6	+0.1	+0.4	0.3	0.6	0.4
Nondurable goods industries.....	+0.1	-0.2	+0.4	+0.1	+0.8	+0.1	+0.6	1.0	0.4	0.6
Unfilled orders:										
Durable goods industries.....	-0.1	+0.2	+0.8	+0.3	+0.2	+0.4	+0.3	0.2	0.1	0.2

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Sept. 1981 ^b	Aug. 1981 ^a	July 1981 ^a	June 1981	Sept. 1981 ^b	Aug. 1981 ^a	July 1981 ^a	June 1981
All manufacturing industries.....	1.63	1.61	1.60	1.57	3.68	3.67	3.65	3.62
Durable goods industries.....	2.15	2.10	2.07	2.01	4.41	4.37	4.36	4.30
Stone, clay, and glass products.....	1.72	1.71	1.56	1.57	0.61	0.64	0.62	0.63
Primary metals.....	2.17	2.04	2.00	1.98	2.47	2.40	2.43	2.42
Fabricated metals.....	2.01	1.94	1.90	1.89	3.16	3.13	3.16	3.10
Machinery, except electrical.....	2.40	2.40	2.40	2.33	4.65	4.68	4.74	4.72
Electrical machinery.....	2.28	2.25	2.22	2.20	4.41	4.34	4.31	4.29
Transportation equipment.....	2.06	1.99	2.05	1.89	10.83	10.54	10.93	10.16
Instruments and related products.....	2.25	2.28	2.22	2.26	1.65	1.69	1.67	1.66
Nondurable goods industries.....	1.10	1.10	1.10	1.10	0.64	0.67	0.66	0.68
Food and kindred products.....	0.97	0.98	0.96	0.96	(X)	(X)	(X)	(X)
Tobacco products.....	3.27	3.31	3.15	3.09	(X)	(X)	(X)	(X)
Textile mill products.....	1.48	1.48	1.47	1.48	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.30	1.31	1.30	1.30	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.28	1.31	1.30	1.32	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.57	0.57	0.61	0.61	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.44	1.42	1.37	1.38	(X)	(X)	(X)	(X)

(NA) Not available. ^aPreliminary. ^bRevised. (X) Not applicable.¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

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Manufacturers' Shipments, Inventories, and Orders

OCTOBER 1981

M3-1(81)-10

For Wire Transmission 2:30 P.M. E.S.T. Thursday, December 3, 1981

U.S. Department of Commerce
BUREAU OF THE CENSUS

M3-1(81)-10

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in October declined \$8.8 billion or 5.2 percent from September to \$159.6 billion, the Department of Commerce, Bureau of the Census, reported today. This is the third consecutive monthly decline in new orders, following decreases in August of 1.5 percent and in September of 1.0 percent.

New orders in the durable goods industries were down \$7.9 billion or 9.1 percent to \$78.4 billion. This is a larger decline than the 8.0 percent decrease reported earlier, and the sharpest one-month drop since the 9.4 percent decline recorded in December 1974. Orders for defense capital goods, which tend to be volatile, declined \$2.7 billion or 42 percent to \$3.8 billion. Excluding the decline in the defense category, total durable goods new orders were down 6.4 percent in October.

In the nondefense capital goods category new orders declined \$1.7 billion or 7.4 percent to \$21.3 billion, following a September decrease of 6.8 percent. Nearly all of the October decline was attributed to the nonelectrical machinery industries.

The declines in new orders were widespread across the individual durable goods industries. The largest decline was in the transportation equipment industry, where orders decreased \$2.6 billion or 13.7 percent to \$16.1 billion. The aircraft and parts industries were down \$1.8 billion, and the motor vehicles and parts industries were off \$0.9 billion. New orders for machinery, electrical and nonelectrical, were down \$2.1 billion and \$1.5 billion respectively. About one-half of the \$2.1 billion drop in the electrical category was caused by the decline in defense communication equipment orders. Continuing the declines in August and September, new orders for primary metals in October decreased 10.1 percent to \$10.3 billion.

Shipments of manufactured goods declined for the fourth, consecutive month, with October registering a decline of \$4.1 billion or 2.4 percent to \$164.5 billion. This decline was somewhat larger than those in the preceding months. Within the durable goods sector, the motor vehicles and parts industries led the shipments declines, falling \$1.2 billion or 10.3 percent to \$10.7 billion. Since June of this year declines in shipments have averaged nearly 5 percent per month.

Shipments by the nondurable goods industries in October declined \$0.9 billion or 1.1 percent to \$81.5 billion. The

declines were widespread. The only increase in shipments was reported by petroleum refiners where an increase of \$0.3 billion or 2.0 percent to \$16.4 billion was recorded.

For the second month the value of manufacturers' shipments exceeded the value of incoming orders. The orders backlog of manufacturers in October fell \$4.9 billion or 1.5 percent to \$323.8 billion. This is the largest monthly decline since the 1.8 percent drop recorded in March 1975. Within the major industry groups the primary metals categories decreased \$0.8 billion or 2.8 percent to \$27.7 billion; the machinery industries declined \$1.9 billion or 1.5 percent to \$125.1 billion, and the transportation equipment industries dropped \$1.3 billion or 1.1 percent to \$116.7 billion.

The book value of manufacturers' inventories rose to \$278.4 billion, up \$1.7 billion or 0.6 percent from September. As shipments declined in the last several months, the inventory to shipments ratio had increased monthly from 1.57 in June to 1.69 in October. Virtually, all of the inventory increase was attributable to the durable goods industries which were up \$1.5 billion or 0.8 percent to \$186.7 billion. The value of inventories of nondurable goods manufacturers' changed little overall. Sizeable increases in the chemicals and apparel industries were offset by declines in petroleum and food products inventories.

The October estimates of inventories by stage of fabrication showed finished goods increasing by 1.3 percent over September, work-in-process up 0.7 percent and no change in the value of raw materials.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for November is scheduled for release on December 22, 1981, and the full report is schedule for release on December 31, 1981.

A description of the survey methodology and related information may be found in the summary report in this series for 1980 M31.10 Manufactures Shipments, Inventories and Orders: 1972-1980, issued July 1981.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Billions of dollars)

SIC	Industry	Seasonally adjusted				Quarterly				Not seasonally adjusted ¹												Year-to-date	
		Monthly				111				Last 4 months				Monthly				Year-to-date				Year-to-date	
		1981				1981				1981				1981				1981				1981	
		Oct. 1981 ^p	Sept. 1981 ^p	Aug. 1981	July 1981	111 1981	II 1981	I 1981	I 1981	Oct. 1981 ^p	Sept. 1981 ^p	Aug. 1981	July 1981	Oct. 1981 ^p	Sept. 1981 ^p	Aug. 1981	July 1981	Oct. 1981 ^p	Sept. 1981 ^p	Aug. 1981	July 1981	1980	1981
20	INDUSTRY GROUPS AND INDUSTRIES--Continued	11,332	11,667	11,582	11,713	35,062	34,648	33,101	11,906	12,319	11,402	10,351	11,659	11,169	10,263	9,150	114,055	104,111	114,055	104,111	19,065	18,170	19,065
30,1,2	Electrical machinery.....	1,072	1,941	2,065	1,915	5,901	5,328	5,004	1,901	1,988	1,968	1,680	1,878	1,871	1,710	1,556	19,065	18,170	19,065	18,170	19,065	18,170	19,065
363	Household appliances.....	1,014	1,111	1,075	1,103	5,291	5,359	3,988	1,901	1,988	1,968	1,680	1,878	1,871	1,710	1,556	19,065	18,170	19,065	18,170	19,065	18,170	19,065
365	Radios and TV sets.....	9,365	9,382	9,377	9,325	9,825	9,825	9,825	9,825	9,825	9,825	9,825	9,825	9,825	9,825	9,825	9,825	9,825	9,825	9,825	9,825	9,825	9,825
367	Electronic components.....	2,213	2,185	2,190	2,369	7,124	6,930	6,506	2,217	2,314	2,299	2,114	2,419	2,318	2,225	2,016	21,467	21,467	21,467	21,467	21,467	21,467	21,467
37	Transportation equipment.....	17,398	18,495	19,431	18,997	57,354	58,311	52,732	19,066	18,586	16,547	16,373	17,739	12,552	13,141	11,857	185,877	156,479	185,877	156,479	185,877	156,479	185,877
371	Motor vehicles and parts.....	10,142	11,971	12,730	12,390	38,111	37,622	32,737	11,019	9,997	10,228	12,908	10,796	6,852	7,543	11,857	185,877	156,479	185,877	156,479	185,877	156,479	185,877
372,6	Aircraft, missiles, and parts.....	4,552	4,938	4,927	4,453	16,218	14,459	13,626	4,480	5,117	4,652	4,167	4,843	3,679	3,902	4,672	41,578	41,578	41,578	41,578	41,578	41,578	41,578
373	Spacecraft and launch vehicles.....	1,186	1,151	1,261	1,204	3,636	3,320	3,405	1,262	1,172	1,208	1,132	1,016	1,084	1,034	1,024	11,549	10,459	11,549	10,459	11,549	10,459	11,549
38	Instrument and related products.....	4,293	4,209	4,705	4,308	12,812	12,955	12,305	4,448	4,387	4,198	3,894	4,124	4,166	3,872	3,379	37,831	37,831	37,831	37,831	37,831	37,831	37,831
381-4	Scientific and engineering.....	2,605	2,533	2,512	2,708	7,708	7,708	7,708	2,605	2,605	2,605	2,605	2,605	2,605	2,605	2,605	26,045	26,045	26,045	26,045	26,045	26,045	26,045
28	Photographic goods.....	1,414	1,406	1,410	1,541	4,442	4,351	4,489	1,496	1,601	1,660	1,437	1,522	1,497	1,432	1,243	13,319	13,319	13,319	13,319	13,319	13,319	13,319
29	All other durable goods.....	7,961	7,985	7,860	8,493	24,338	25,524	24,738	8,004	8,780	8,411	7,756	8,820	8,691	7,888	6,903	81,438	77,843	81,438	77,843	81,438	77,843	81,438
39	Industries.....	22,115	22,421	22,653	22,638	67,512	67,077	66,538	22,804	23,119	22,394	21,057	22,677	23,021	22,021	19,822	222,409	209,788	222,409	209,788	222,409	209,788	222,409
20	Food products.....	5,639	5,856	5,769	5,667	17,322	16,970	16,528	5,876	5,785	5,617	5,367	5,513	5,186	5,161	4,591	56,591	48,090	56,591	48,090	56,591	48,090	56,591
201	Meat products.....	2,969	2,927	2,955	3,066	8,948	9,124	8,629	3,119	2,980	3,144	3,198	3,131	2,907	3,215	3,035	29,919	28,540	29,919	28,540	29,919	28,540	29,919
207	Beverages.....	1,766	1,757	1,854	1,764	5,375	5,189	5,233	1,772	1,791	1,772	1,634	1,672	1,669	1,571	1,495	18,599	18,599	18,599	18,599	18,599	18,599	18,599
208	Fats and oils.....	8,659	8,806	8,795	8,908	28,573	27,471	27,887	8,166	8,190	8,190	7,886	8,139	8,068	7,578	6,859	89,689	85,396	89,689	85,396	89,689	85,396	89,689
203-9	Tobacco products.....	4,019	4,019	4,019	4,019	12,057	12,057	12,057	4,019	4,019	4,019	4,019	4,019	4,019	4,019	4,019	40,190	40,190	40,190	40,190	40,190	40,190	40,190
26	Textile mill products.....	4,019	4,019	4,019	4,019	12,057	12,057	12,057	4,019	4,019	4,019	4,019	4,019	4,019	4,019	4,019	40,190	40,190	40,190	40,190	40,190	40,190	40,190
261	Textile mill products.....	4,019	4,019	4,019	4,019	12,057	12,057	12,057	4,019	4,019	4,019	4,019	4,019	4,019	4,019	4,019	40,190	40,190	40,190	40,190	40,190	40,190	40,190
261-3	Pulp, paper, etc.....	2,843	3,042	2,842	2,812	8,674	8,480	8,479	2,848	2,868	2,869	2,805	2,752	2,734	2,601	2,350	34,825	34,825	34,825	34,825	34,825	34,825	34,825
265	Paperboard containers.....	1,886	1,671	1,611	1,717	5,999	4,970	4,843	1,675	1,758	1,684	1,580	1,614	1,562	1,462	1,250	26,397	26,397	26,397	26,397	26,397	26,397	26,397
265	All other paper products.....	1,550	1,550	1,550	1,550	4,525	4,525	4,525	1,550	1,550	1,550	1,550	1,550	1,550	1,550	1,550	15,500	15,500	15,500	15,500	15,500	15,500	15,500
28	Chemical and allied products.....	15,286	15,489	15,450	15,459	46,626	44,875	44,941	15,010	16,078	15,055	14,180	14,331	14,697	13,185	12,196	151,904	138,872	151,904	138,872	151,904	138,872	151,904
281,6	Industrial chemicals, except pigments.....	3,293	3,384	3,374	3,471	16,329	16,135	16,058	3,049	3,101	3,197	3,066	3,124	4,930	4,884	4,279	66,311	66,311	66,311	66,311	66,311	66,311	66,311
283,4	Drugs, soap, and toiletries.....	3,811	3,934	3,781	3,687	11,382	10,998	11,804	3,497	3,579	3,690	3,351	3,749	3,794	3,794	3,476	66,311	66,311	66,311	66,311	66,311	66,311	66,311
29	Petroleum and coal products.....	16,366	16,069	16,405	15,899	48,113	48,750	49,783	16,194	16,086	16,498	15,772	14,973	14,499	14,499	14,499	162,406	162,406	162,406	162,406	162,406	162,406	162,406
30	Rubber and plastics products, except in primary forms.....	4,010	3,971	3,996	4,129	12,056	11,846	11,419	4,218	4,087	4,260	3,739	4,354	4,106	3,973	3,973	39,892	39,892	39,892	39,892	39,892	39,892	39,892
23	All other nondurable goods.....	13,111	12,248	12,559	12,736	37,392	36,306	35,480	13,167	13,116	13,086	12,123	12,713	12,337	11,886	11,607	111,405	111,405	111,405	111,405	111,405	111,405	111,405
31	Industries.....	22,115	22,421	22,653	22,638	67,512	67,077	66,538	22,804	23,119	22,394	21,057	22,677	23,021	22,021	19,822	222,409	209,788	222,409	209,788	222,409	209,788	222,409

¹ Preliminary.

Revised.

Shipment and raw orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day variations.

The supplementary series are groupings of the separate industry categories as follows:

Household durable goods--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances; radio and TV; electronic components, and new personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products--Comparable to the previous nondefense products (old series) categories.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the W-175, "Shipments of Federal Government Agencies" (formerly "Shipments of Defense-Related Industries") for the specified industries.

Table 2 VALUE OF MANUFACTURES: NEW ORDERS FOR INDUSTRIES GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	Seasonally adjusted				Quarterly				Monthly				Year-to-date				
		Monthly				11				Last 4 months					Last 4 months a year ago			
		1981				1981				1981					1981			
		Oct. 1981	Sept. 1981	Aug. 1981	July 1981	111. 1981	111. 1981	111. 1981	111. 1981	Oct. 1981	Sept. 1981	Aug. 1981	July 1981		Oct. 1981	Sept. 1981	Aug. 1981	July 1981
in billions of dollars																		
1981S																		
TOTALS																		
32	All manufacturing industries.....	159,612	186,444	176,963	172,611	311,119	318,433	344,712	346,281	156,831	170,629	165,711	141,537	1,685,271	2,008,143	1,970,564	1,730,356	
33	Manufacturing industries excluding transportation.....	149,334	169,817	159,688	151,703	293,267	293,987	343,867	346,821	139,882	149,332	144,853	124,889	1,496,564	1,770,842	1,730,356	1,500,103	
331-333	Manufacturing industries with unfilled orders.....	81,786	89,686	90,266	82,267	271,567	288,497	294,788	295,133	81,801	87,288	87,403	79,358	73,701	889,742	811,013	811,013	
34	Durable goods industries.....	78,608	86,278	87,350	84,686	263,326	263,667	276,383	281,207	79,035	83,116	82,467	71,133	70,674	865,186	785,098	785,098	
35	Durable goods with unfilled orders.....	69,626	72,015	73,211	75,942	220,270	212,744	213,194	211,086	73,624	76,314	75,888	60,317	59,777	720,416	658,012	658,012	
351	Non-durable goods industries.....	81,094	82,166	82,713	82,715	267,746	265,196	263,389	263,525	81,436	80,158	79,489	69,363	68,302	753,025	753,025	753,025	
351	Non-durable goods with unfilled orders.....	16,758	17,093	17,213	17,213	51,277	51,424	52,724	52,724	15,831	16,474	16,715	13,924	13,924	168,374	153,001	153,001	
354	Industries without unfilled orders.....	64,846	65,080	65,701	65,701	146,317	144,261	143,661	143,661	65,605	63,684	62,774	56,039	56,039	620,335	600,044	600,044	
MARKET CATEGORIES																		
33	Home goods and apparel.....	11,659	12,373	12,428	12,428	37,400	37,187	36,724	36,724	11,782	11,941	12,550	11,927	10,089	124,061	112,868	112,868	
331	Consumer staples.....	28,457	29,282	28,945	28,945	87,060	86,667	86,000	85,915	27,502	28,389	30,439	28,343	25,932	288,374	271,863	271,863	
331-333	Business and defense products, except automobiles.....	22,451	22,303	22,593	26,942	79,759	75,996	78,323	76,712	23,421	20,360	20,789	22,789	22,380	240,413	240,413	240,413	
35	Automotive equipment.....	12,566	13,408	14,284	14,472	42,166	43,163	38,242	38,242	12,467	14,988	12,825	8,371	8,857	139,633	108,536	108,536	
351	Construction materials, supplies, and intermediate products.....	11,986	12,273	11,944	12,900	37,117	38,784	39,324	39,324	12,617	13,573	12,555	12,012	11,180	127,649	118,526	118,526	
351	Other materials, supplies, and intermediate products.....	71,595	79,458	79,034	76,312	227,204	227,379	221,315	221,315	73,799	73,278	69,635	65,980	62,489	750,850	685,957	685,957	
SUPPLEMENTARY SERIES ²																		
33	Household durable goods industries.....	4,846	5,388	5,253	5,610	16,150	16,267	16,412	16,412	5,864	5,508	5,616	5,066	4,068	56,097	48,653	48,653	
331	Electrical goods.....	29,388	30,639	29,708	29,708	86,032	86,032	86,032	86,032	27,741	28,326	29,435	27,209	26,899	286,726	270,259	270,259	
331-333	Nonferrous and other primary products.....	21,419	23,026	24,700	26,226	71,452	71,818	70,468	70,468	23,705	23,492	23,176	19,534	21,264	236,670	233,930	233,930	
35	Defense.....	3,809	6,534	5,759	5,482	17,759	14,315	13,629	6,034	7,297	6,832	6,359	3,675	5,635	50,031	46,359	46,359	
INDUSTRY GROUPS AND INDUSTRIES																		
32	Durable goods industries:	3,953	3,897	3,967	4,246	12,110	12,686	12,425	4,230	4,157	4,186	4,165	4,252	4,126	3,809	3,629	3,629	
33	Stone, clay, and glass.....	10,469	11,627	11,602	12,466	35,490	34,984	34,228	10,263	10,558	10,830	10,471	12,712	11,371	10,521	8,883	115,354	
331	Primary metals.....	5,160	6,002	6,082	6,436	18,540	18,433	17,291	5,002	5,266	5,482	5,353	6,373	5,354	3,888	59,357	59,357	
331-333	Blast furnaces, steel mills, nonferrous and other primary products.....	1,906	4,466	4,862	4,862	11,856	13,277	13,746	4,093	4,307	4,307	4,071	5,182	4,948	4,313	45,113	49,584	
34	Fabricated metal products.....	9,109	10,108	9,901	10,896	31,759	31,872	31,726	10,721	10,033	10,254	10,067	9,710	9,999	8,491	104,099	95,656	
35	Machinery, except electrical.....	16,314	17,498	17,658	16,376	51,532	51,889	53,334	19,625	17,584	18,214	15,041	16,591	13,152	14,606	170,860	169,374	
351	Engines and turbines.....	1,420	1,538	1,544	1,261	4,343	4,335	4,200	1,433	1,650	1,724	1,404	1,320	1,270	898	14,352	10,992	
351	Construction, mining, and other machinery and equipment.....	3,090	3,328	3,559	3,429	10,520	11,085	10,635	3,266	3,310	3,187	3,117	3,108	2,592	2,665	35,633	38,572	
354	Working machinery and equipment.....	779	786	772	729	2,267	2,333	2,701	777	747	774	866	839	635	8,116	9,332	9,332	
356	General industrial machinery.....	1,543	1,317	1,638	1,549	4,504	4,526	4,198	1,599	1,779	1,609	1,447	1,369	1,230	1,125	14,896	12,614	

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted				Quarterly				Monthly				Year-to-date	
		Monthly				III 1981 ^a	II 1981	I 1981	Last 4 months				1980	1981	
		Oct. 1981 ^b	Sept. 1981 ^b	Aug. 1981	July 1981				Oct. 1981 ^b	Sept. 1981 ^b	Aug. 1981	July 1981			
INDUSTRY GROUPS AND INDUSTRIES--															
Continued															
Durable goods industries--															
Continued															
36	Electrical machinery.....	10,400	12,487	11,920	12,055	36,462	36,281	34,371	11,294	12,818	11,699	10,517	12,135	10,829	108,745
361,2	Electric, electronic, and communication equipment and distribution apparatus.....	1,490	1,901	2,038	1,998	5,937	5,770	5,798	1,543	1,911	1,993	1,702	1,975	1,717	18,663
363	Household appliances.....	947	1,114	1,049	1,086	3,249	3,477	3,402	989	1,163	1,073	1,077	1,125	1,110	10,493
365	Radio and TV.....	599	1,173	956	954	3,083	2,754	2,865	705	1,293	1,111	798	947	910	7,293
366	Communication equipment.....	3,024	4,045	3,451	3,669	11,105	10,704	9,811	3,638	3,985	3,210	3,045	3,796	3,340	31,608
37	Transportation equipment.....	16,073	18,627	20,375	20,469	59,911	57,848	55,886	20,525	19,284	15,960	16,949	21,197	20,360	225,595
372,6	Aircraft, missiles, and parts.....	3,788	5,617	5,106	6,116	16,839	13,663	16,553	6,215	6,510	3,271	4,776	5,891	3,259	157,358
3731	Shipbuilding and military ships.....	596	595	1,954	1,477	3,966	3,996	3,796	1,011	1,229	1,519	968	1,370	2,656	54,449
3745	Instrumentation.....	4,338	4,245	4,152	4,425	12,822	12,540	12,330	4,470	4,486	4,164	4,010	4,067	4,120	12,428
38	Products.....	8,052	8,048	7,775	8,415	24,238	25,563	25,586	8,412	8,569	8,391	7,868	8,673	8,386	41,971
24	All other durable goods industries.....														84,288
25															77,688
29															

Preliminary.

Revised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radio and TV, ophthalmic goods, watches, and clocks; and miscellaneous personal goods.
Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.
Nondefense industries--Comparable to the previous nondefense industries category (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.
Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.
The data are comparable to those published annually in the MA-175, "Shipments to Federal Government Agencies" (formerly "Shipments of Defense-Related Industries"), for the specific industries.

Table 3. VALUE OF MANUFACTURES¹ (UNTIL 1980: BY SECTOR, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES)

SIC	Industry	Seasonally adjusted ² (billions of dollars)												Not seasonally adjusted ³ (billions of dollars)											
		Months						Quarterly						Yearly						Monthly					
		1981		1981		1981		1981		1981		1981		1981		1981		1981		1981		1981		1981	
		Oct	Sept	Aug	July	June	May	April	March	February	January	December	November	October	September	August	July	June	May	April	March	February	January	December	November
	TOTALS																								
32	All manufacturing industries	151,753	138,613	138,757	138,206	125,918	124,802	319,729	315,027	598,494	3,141	3,141	3,141	3,141	3,141	3,141	3,141	3,141	3,141	3,141	3,141	3,141	3,141	3,141	3,141
33	Nonmetallic mineral products	297,008	210,352	210,352	210,352	210,352	210,352	210,352	210,352	210,352	210,352	210,352	210,352	210,352	210,352	210,352	210,352	210,352	210,352	210,352	210,352	210,352	210,352	210,352	210,352
34	Food, kindred, and allied products	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406	11,406
35	Textile mill and apparel	10,867	11,453	11,458	11,458	11,458	11,458	11,458	11,458	11,458	11,458	11,458	11,458	11,458	11,458	11,458	11,458	11,458	11,458	11,458	11,458	11,458	11,458	11,458	11,458
36	Chemical and allied products	4,575	4,575	4,575	4,575	4,575	4,575	4,575	4,575	4,575	4,575	4,575	4,575	4,575	4,575	4,575	4,575	4,575	4,575	4,575	4,575	4,575	4,575	4,575	4,575
37	Metals and metal products	194,145	194,108	194,278	194,278	194,278	194,278	194,278	194,278	194,278	194,278	194,278	194,278	194,278	194,278	194,278	194,278	194,278	194,278	194,278	194,278	194,278	194,278	194,278	194,278
38	Transportation equipment	12,023	12,471	12,471	12,471	12,471	12,471	12,471	12,471	12,471	12,471	12,471	12,471	12,471	12,471	12,471	12,471	12,471	12,471	12,471	12,471	12,471	12,471	12,471	12,471
39	Construction materials, supplies, and intermediate products	111,026	111,213	112,170	112,170	112,170	112,170	112,170	112,170	112,170	112,170	112,170	112,170	112,170	112,170	112,170	112,170	112,170	112,170	112,170	112,170	112,170	112,170	112,170	112,170
40	Intermediate products																								
	SUPPLEMENTARY SERIES ⁴																								
32	Nonmetallic mineral products	1,410	1,715	3,708	3,728	3,732	3,628	2,954	3,084	3,220	3,118	3,118	3,118	3,118	3,118	3,118	3,118	3,118	3,118	3,118	3,118	3,118	3,118	3,118	3,118
33	Food, kindred, and allied products	222,770	225,738	225,006	225,006	225,006	225,006	225,006	225,006	225,006	225,006	225,006	225,006	225,006	225,006	225,006	225,006	225,006	225,006	225,006	225,006	225,006	225,006	225,006	225,006
34	Textile mill and apparel	161,707	146,126	147,712	147,581	147,288	147,474	147,673	147,300	146,477	144,177	144,925	146,639	147,243	146,394	146,291	146,824	146,824	146,824	146,824	146,824	146,824	146,824	146,824	146,824
35	Chemical and allied products	79,023	79,632	77,294	75,952	74,696	72,398	68,355	67,113	60,207	58,455	57,188	54,955	52,455	50,455	48,455	46,455	44,455	42,455	40,455	38,455	36,455	34,455	32,455	30,455
36	Metals and metal products																								
37	Transportation equipment																								
38	Construction materials, supplies, and intermediate products																								
	INDUSTRY GROUPS AND INDUSTRIES																								
32	Durable goods industries	2,165	2,114	2,250	2,287	2,292	2,288	2,288	2,288	2,288	2,288	2,288	2,288	2,288	2,288	2,288	2,288	2,288	2,288	2,288	2,288	2,288	2,288	2,288	2,288
33	Primary metals	17,410	17,410	17,410	17,410	17,410	17,410	17,410	17,410	17,410	17,410	17,410	17,410	17,410	17,410	17,410	17,410	17,410	17,410	17,410	17,410	17,410	17,410	17,410	17,410
34	Nonferrous and other primary metal products	7,670	8,067	8,364	8,589	8,425	8,557	9,008	8,676	8,219	7,343	7,704	8,211	8,436	8,319	8,162	8,198	8,198	8,198	8,198	8,198	8,198	8,198	8,198	8,198
35	Fabricated metal products	29,179	29,856	30,091	30,620	30,362	30,134	30,189	29,800	30,749	29,099	29,861	30,162	30,661	29,873	29,835	30,411	30,726	30,726	30,726	30,726	30,726	30,726	30,726	30,726
36	Machinery, except electrical	76,459	75,440	75,297	74,885	75,578	74,602	74,396	72,650	71,914	74,099	74,680	75,233	75,262	72,002	72,289	72,289	72,289	72,289	72,289	72,289	72,289	72,289	72,289	72,289
37	Engines and turbines	18,451	18,451	18,451	18,451	18,451	18,451	18,451	18,451	18,451	18,451	18,451	18,451	18,451	18,451	18,451	18,451	18,451	18,451	18,451	18,451	18,451	18,451	18,451	18,451
38	Material-handling equipment	11,046	11,341	11,380	11,299	10,989	9,760	8,765	8,141	8,062	10,957	11,116	11,266	11,311	8,293	7,986	7,851	7,851	7,851	7,851	7,851	7,851	7,851	7,851	7,851
39	Metalworking machinery	5,502	5,736	5,987	6,233	6,459	7,035	7,292	7,661	7,986	5,519	5,753	6,083	6,208	7,559	7,756	7,932	7,932	7,932	7,932	7,932	7,932	7,932	7,932	7,932
356	General industrial machinery	6,724	6,869	6,775	6,606	6,547	6,304	6,177	6,287	6,615	6,844	6,822	6,676	6,190	6,274	6,454	6,541	6,541	6,541	6,541	6,541	6,541	6,541	6,541	6,541

See footnotes at end of table.

BILLIONS OF DOLLARS

Industry	Seasonally adjusted					Quarterly					Monthly					Not seasonally adjusted						
	Months					Months					Months					Months						
	Oct. 1981	Sept. 1981	Aug. 1981	July 1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981
TOTALS																						
All manufacturing industries.....	278,357	276,726	271,361	271,892	269,709	266,524	257,990	256,435	256,421	256,414	272,565	271,008	254,257	254,207	255,136	256,229						
Manufacturing industries ex- cluding transportation equip- ment and primary metal in- dustries.....	218,215	217,192	214,696	214,923	211,081	208,441	201,101	201,393	201,998	201,898	213,539	212,474	216,434	216,769	220,401	222,002						
Manufacturing industries with unfilled orders.....	131,606	130,600	126,665	126,916	124,628	122,083	117,756	117,415	117,188	117,188	128,466	126,071	126,071	126,071	126,071	126,071						
Durable goods industries.....	186,679	185,140	182,223	180,855	178,676	176,229	171,603	170,163	169,769	169,769	181,467	180,681	167,437	168,308	170,295	170,144						
Durable goods with unfilled orders.....	170,606	169,427	166,195	164,737	162,821	160,227	155,430	153,986	153,699	153,699	165,347	164,607	152,118	152,118	152,118	152,118						
Nondurable goods industries.....	91,678	91,476	91,140	91,017	90,295	89,377	86,972	86,672	86,657	86,657	90,809	90,578	86,640	85,869	85,643	86,076						
Nondurable goods with unfilled orders.....	20,948	20,823	20,500	20,493	20,215	20,047	19,326	19,245	19,250	19,245	20,435	20,427	18,763	18,976	19,393	19,794						
MARKET CATEGORIES																						
Home goods and apparel.....	22,481	22,087	21,881	21,637	21,410	21,201	20,663	20,395	20,706	20,706	21,636	21,338	19,772	20,215	20,844	21,156						
Consumer staples.....	11,262	11,142	11,025	10,926	10,826	10,726	10,626	10,526	10,626	10,626	11,142	11,025	10,526	10,626	10,726	10,826						
Equipment and defense products.....	75,946	75,148	74,156	73,775	73,240	72,605	69,898	69,388	67,389	67,389	71,148	70,638	68,657	68,543	68,440	68,723						
Automotive equipment.....	11,710	11,714	11,396	11,688	11,510	11,775	11,872	11,589	12,267	12,267	11,880	12,968	11,457	11,605	11,701	11,880						
Construction materials, supplies, and intermediate products.....	23,014	23,006	22,727	22,613	22,493	21,602	21,266	20,809	20,999	20,999	22,441	22,517	20,210	20,387	20,724	20,923						
Other materials, supplies, and intermediate products.....	112,024	111,824	109,998	109,452	108,478	107,666	102,070	102,767	103,380	103,380	109,886	109,738	100,634	100,988	102,494	103,193						
SUPPLEMENTARY SECTORS																						
Household durable goods indus- tries.....	10,086	10,119	10,674	10,446	10,250	10,236	9,992	9,980	10,198	10,198	10,643	10,596	9,862	9,865	10,111	10,264						
Capital goods industries.....	85,892	85,074	83,742	83,283	82,376	80,456	78,245	77,469	75,420	75,420	83,562	83,562	77,119	76,705	76,856	76,688						
Nonferrous and other primary metals.....	12,816	12,689	12,459	12,244	11,976	11,844	11,602	11,421	11,242	11,242	12,816	12,816	11,242	11,242	11,242	11,242						
Fabricated metal products.....	10,631	10,511	10,268	10,016	9,819	9,563	8,802	8,566	8,486	8,486	10,631	10,270	8,486	8,486	8,486	8,486						
Metal cans, barrels, and drums.....	2,619	2,615	2,628	2,671	2,746	2,801	2,774	2,774	2,774	2,774	2,619	2,619	2,774	2,774	2,774	2,774						
Machinery, except electrical.....	1,651	1,578	1,538	1,544	1,571	1,637	1,744	1,578	1,732	1,732	1,651	1,651	1,578	1,578	1,578	1,578						
Electrical, electronic, and communications equipment.....	4,261	4,136	4,066	4,036	4,026	3,918	3,918	3,918	3,918	3,918	4,261	4,261	3,918	3,918	3,918	3,918						
Farm machinery and equip- ment.....	2,639	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,585	2,639	2,639	2,585	2,585	2,585	2,585						
Construction, mining, and material-handling equipment.....	9,446	9,213	9,082	8,951	8,789	8,669	8,446	8,446	8,446	8,446	9,446	9,446	8,446	8,446	8,446	8,446						
Metallurgical machinery.....	2,387	2,719	2,719	2,636	2,624	2,760	2,636	2,636	2,636	2,636	2,387	2,387	2,636	2,636	2,636	2,636						
General industrial machinery.....	4,008	3,872	3,836	3,787	3,753	3,603	3,361	3,627	3,637	3,637	4,008	4,008	3,637	3,637	3,637	3,637						

See footnotes at end of table.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted					Quarterly					Monthly				
		Monthly					I					Last 4 months				
		Oct. 1981 ^p	Aug. 1981	July 1981	II 1981	I 1981	IV 1980	III 1980	II 1980	I 1980	Oct. 1981 ^p	Sept. 1981	Aug. 1981	July 1981	Oct. 1980	Sept. 1980
36	INDUSTRY GROUPS AND INDUSTRIES--															
361.2	Continued															
	Durable goods industries--															
	Continued															
	Electrical machinery.....	26,851	26,243	25,987	25,689	25,057	24,383	24,350	24,145	26,475	26,165	26,259	26,112	24,104	24,314	24,504
	Electrical transmission and distribution apparatus.....	4,810	4,744	4,573	4,498	4,263	4,163	4,232	4,263	4,767	4,558	4,553	4,165	4,145	4,231	4,293
363	Radio and TV.....	1,729	2,031	1,981	1,934	1,905	1,774	1,863	1,943	2,016	1,978	1,984	1,760	1,870	1,912	1,912
365	Radio and TV.....	1,729	1,664	1,550	1,444	1,444	1,311	1,292	1,309	1,276	1,222	1,231	1,287	1,383	1,383	1,383
366	Communication equipment.....	8,859	8,862	8,889	8,886	8,774	8,630	8,499	8,178	8,845	8,854	8,860	8,467	8,540	8,465	8,388
367	Electronic components.....	4,978	4,844	4,889	4,795	4,560	4,422	4,422	4,422	4,864	4,864	4,864	4,437	4,456	4,456	4,459
37	Transportation equipment.....	39,474	39,678	39,451	38,600	38,151	36,600	35,422	35,422	39,006	38,538	38,538	35,437	35,437	35,437	35,437
371	Automotive equipment.....	9,376	9,388	9,388	9,376	9,376	9,376	9,376	9,376	9,376	9,376	9,376	9,376	9,376	9,376	9,376
372.6	Aircraft and parts	26,031	25,167	25,151	24,820	24,001	24,218	24,195	24,160	25,865	25,327	25,263	24,443	21,521	20,918	20,918
373.1	Shipbuilding and military tank vehicles.....	2,699	2,449	2,433	2,636	2,612	2,465	2,105	2,130	2,780	2,488	2,350	2,234	2,165	2,198	2,219
379	Instruments and related products.....	9,661	9,748	9,585	9,401	9,380	9,281	9,037	8,894	9,536	9,411	9,465	9,109	8,465	9,103	9,121
381-4	Chemical and allied products.....	2,312	2,224	2,224	2,247	2,259	2,243	2,172	2,135	2,259	2,284	2,305	2,155	2,155	2,203	2,184
386	Pharmaceutical goods.....	14,811	14,880	14,715	14,508	14,213	14,046	14,175	13,923	14,561	14,763	14,667	13,908	14,000	14,200	13,932
39	All other durable goods industries.....															
	Non-durable goods industries															
20	Food and kindred products.....	21,527	21,636	21,636	21,862	22,372	22,425	22,548	21,263	22,467	21,413	20,118	23,422	22,773	21,389	20,811
201	Meat products.....	2,874	2,709	2,709	2,767	2,772	2,767	2,767	2,767	2,767	2,767	2,767	2,767	2,767	2,767	2,767
202	Dairy products.....	3,912	3,912	3,912	3,912	3,912	3,912	3,912	3,912	3,912	3,912	3,912	3,912	3,912	3,912	3,912
207	Fats and oils.....	1,586	1,761	1,662	1,648	1,792	2,055	2,388	1,885	1,631	1,253	1,420	1,464	2,553	3,589	3,589
208-9	All other foods.....	12,315	12,481	12,564	12,456	12,476	12,428	12,480	11,885	13,301	13,067	12,606	13,551	13,067	12,564	11,758
21	Tobacco products.....	4,043	3,931	3,765	3,570	3,689	3,428	3,507	4,087	3,906	3,605	3,351	3,108	3,566	3,281	3,184
22	Textile mill products.....	6,867	6,842	6,842	6,842	6,842	6,842	6,842	6,842	6,842	6,842	6,842	6,842	6,842	6,842	6,842
221	Woolen textile products.....	8,245	8,245	8,245	8,245	8,245	8,245	8,245	8,245	8,245	8,245	8,245	8,245	8,245	8,245	8,245
261-3	Polyp, paper and allied products.....	3,316	3,316	3,316	3,316	3,316	3,316	3,316	3,316	3,316	3,316	3,316	3,316	3,316	3,316	3,316
265	Paperboard containers.....	3,313	3,313	3,313	3,313	3,313	3,313	3,313	3,313	3,313	3,313	3,313	3,313	3,313	3,313	3,313
266	All other paper containers.....	3,132	3,132	3,132	3,132	3,132	3,132	3,132	3,132	3,132	3,132	3,132	3,132	3,132	3,132	3,132
28	Chemicals and allied products.....	20,774	20,763	20,763	20,718	19,448	18,489	18,478	19,421	20,312	19,993	20,025	18,035	18,114	18,282	18,733
281.6	Industrial chemicals, except inorganic.....	6,843	6,856	6,849	6,961	6,693	6,244	6,200	6,714	6,767	6,704	6,808	6,037	6,107	6,201	6,496
283-4	Pharmaceuticals, except drugs, soap, and toiletries.....	6,046	5,967	5,941	5,823	5,839	5,412	5,396	5,587	5,473	5,347	5,405	5,460	5,523	5,572	5,612
29	Petroleum and coal products.....	8,842	9,320	9,604	9,996	9,885	8,240	8,805	8,711	9,200	9,343	9,424	9,601	8,943	8,835	8,803
30	Rubber and plastics products, n.e.c.....	5,670	5,624	5,677	5,634	5,538	5,379	5,332	5,603	5,508	5,592	5,537	5,638	5,125	5,181	5,494
31	All other nondurable goods industries.....	15,434	15,038	14,982	14,817	14,656	14,353	14,243	14,241	14,343	15,181	15,497	15,750	14,704	14,704	14,976

^p Preliminary.

Revised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unutilized orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are groupings of the separate industry categories as follows:

1. Non-durable goods industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware household appliances (radio and TV, optical goods, watches, and locks and fasteners).

2. Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

3. Non-defense products--Machinery, except electrical (excluding farm machinery and equipment and machine tools), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the non-defense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

4. Defense products--Based on separate reports on defense goods filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the G.I.T. Statistics of Federal Government Agencies.

The data are comparable to those published annually in the G.I.T. Statistics of Federal Government Agencies.

Industry	Seasonally adjusted												Quarters												Months																																																																																																																																																																																																																																																																																																																																									
	Monthly				1961				1962				1963				1964				1965				1966				1967				1968				1969				1970																																																																																																																																																																																																																																																																																																																									
	Sept 1961	Aug 1961	July 1961	June 1961	May 1961	April 1961	March 1961	Feb 1961	Jan 1961	Dec 1960	Nov 1960	Oct 1960	Sept 1960	Aug 1960	July 1960	June 1960	May 1960	April 1960	March 1960	Feb 1960	Jan 1960	Dec 1959	Nov 1959	Oct 1959	Sept 1959	Aug 1959	July 1959	June 1959	May 1959	April 1959	March 1959	Feb 1959	Jan 1959	Dec 1958	Nov 1958	Oct 1958	Sept 1958	Aug 1958	July 1958	June 1958	May 1958	April 1958	March 1958	Feb 1958	Jan 1958	Dec 1957	Nov 1957	Oct 1957	Sept 1957	Aug 1957	July 1957	June 1957	May 1957	April 1957	March 1957	Feb 1957	Jan 1957	Dec 1956	Nov 1956	Oct 1956	Sept 1956	Aug 1956	July 1956	June 1956	May 1956	April 1956	March 1956	Feb 1956	Jan 1956	Dec 1955	Nov 1955	Oct 1955	Sept 1955	Aug 1955	July 1955	June 1955	May 1955	April 1955	March 1955	Feb 1955	Jan 1955	Dec 1954	Nov 1954	Oct 1954	Sept 1954	Aug 1954	July 1954	June 1954	May 1954	April 1954	March 1954	Feb 1954	Jan 1954	Dec 1953	Nov 1953	Oct 1953	Sept 1953	Aug 1953	July 1953	June 1953	May 1953	April 1953	March 1953	Feb 1953	Jan 1953	Dec 1952	Nov 1952	Oct 1952	Sept 1952	Aug 1952	July 1952	June 1952	May 1952	April 1952	March 1952	Feb 1952	Jan 1952	Dec 1951	Nov 1951	Oct 1951	Sept 1951	Aug 1951	July 1951	June 1951	May 1951	April 1951	March 1951	Feb 1951	Jan 1951	Dec 1950	Nov 1950	Oct 1950	Sept 1950	Aug 1950	July 1950	June 1950	May 1950	April 1950	March 1950	Feb 1950	Jan 1950	Dec 1949	Nov 1949	Oct 1949	Sept 1949	Aug 1949	July 1949	June 1949	May 1949	April 1949	March 1949	Feb 1949	Jan 1949	Dec 1948	Nov 1948	Oct 1948	Sept 1948	Aug 1948	July 1948	June 1948	May 1948	April 1948	March 1948	Feb 1948	Jan 1948	Dec 1947	Nov 1947	Oct 1947	Sept 1947	Aug 1947	July 1947	June 1947	May 1947	April 1947	March 1947	Feb 1947	Jan 1947	Dec 1946	Nov 1946	Oct 1946	Sept 1946	Aug 1946	July 1946	June 1946	May 1946	April 1946	March 1946	Feb 1946	Jan 1946	Dec 1945	Nov 1945	Oct 1945	Sept 1945	Aug 1945	July 1945	June 1945	May 1945	April 1945	March 1945	Feb 1945	Jan 1945	Dec 1944	Nov 1944	Oct 1944	Sept 1944	Aug 1944	July 1944	June 1944	May 1944	April 1944	March 1944	Feb 1944	Jan 1944	Dec 1943	Nov 1943	Oct 1943	Sept 1943	Aug 1943	July 1943	June 1943	May 1943	April 1943	March 1943	Feb 1943	Jan 1943	Dec 1942	Nov 1942	Oct 1942	Sept 1942	Aug 1942	July 1942	June 1942	May 1942	April 1942	March 1942	Feb 1942	Jan 1942	Dec 1941	Nov 1941	Oct 1941	Sept 1941	Aug 1941	July 1941	June 1941	May 1941	April 1941	March 1941	Feb 1941	Jan 1941	Dec 1940	Nov 1940	Oct 1940	Sept 1940	Aug 1940	July 1940	June 1940	May 1940	April 1940	March 1940	Feb 1940	Jan 1940	Dec 1939	Nov 1939	Oct 1939	Sept 1939	Aug 1939	July 1939	June 1939	May 1939	April 1939	March 1939	Feb 1939	Jan 1939	Dec 1938	Nov 1938	Oct 1938	Sept 1938	Aug 1938	July 1938	June 1938	May 1938	April 1938	March 1938	Feb 1938	Jan 1938	Dec 1937	Nov 1937	Oct 1937	Sept 1937	Aug 1937	July 1937	June 1937	May 1937	April 1937	March 1937	Feb 1937	Jan 1937	Dec 1936	Nov 1936	Oct 1936	Sept 1936	Aug 1936	July 1936	June 1936	May 1936	April 1936	March 1936	Feb 1936	Jan 1936	Dec 1935	Nov 1935	Oct 1935	Sept 1935	Aug 1935	July 1935	June 1935	May 1935	April 1935	March 1935	Feb 1935	Jan 1935	Dec 1934	Nov 1934	Oct 1934	Sept 1934	Aug 1934	July 1934	June 1934	May 1934	April 1934	March 1934	Feb 1934	Jan 1934	Dec 1933	Nov 1933	Oct 1933	Sept 1933	Aug 1933	July 1933	June 1933	May 1933	April 1933	March 1933	Feb 1933	Jan 1933	Dec 1932	Nov 1932	Oct 1932	Sept 1932	Aug 1932	July 1932	June 1932	May 1932	April 1932

Table 6. PERCENT CHANGES AND REVISION FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent changes							Revisions ²		
	Month-to-month			Average monthly rates of change ¹				Year ago Oct. 1980	Average monthly	
	Sept. 1981- Oct. 1981	Aug. 1981- Sept. 1981	July 1981- Aug. 1981	Third quarter 1981	Second quarter 1981	First quarter 1981	Nov. 1980 through Oct. 1981		Oct. 1980 through Sept. 1981	Oct. 1976-1980
Shipments:										
All manufacturing industries.....	-2.4	-0.6	-0.5	-0.6	+1.1	+0.4	+0.2	0.1	0.2	1.2
Durable goods industries.....	-3.7	-0.8	-0.5	-1.0	-1.4	+0.6	0.0	0.1	0.4	0.4
Nondurable goods industries.....	-1.1	-0.3	-0.4	-0.1	+0.8	+0.2	+0.3	0.5	0.4	0.5
Inventories:										
All manufacturing industries.....	+0.6	+1.2	+0.5	+0.8	+0.4	+1.1	+0.7	0.2	0.1	0.1
New orders:										
All manufacturing industries.....	-5.2	-1.0	-1.5	-0.5	+0.7	+0.1	-0.1	0.1	0.3	0.2
Durable goods industries.....	-9.1	-1.2	-2.6	-0.8	+0.6	+0.1	-0.5	0.5	0.6	0.4
Nondurable goods industries.....	-1.2	-0.7	-0.2	-0.2	+0.8	+0.1	+0.3	0.3	0.4	0.4
Unfilled orders:										
Durable goods industries.....	-1.4	0.0	+0.2	+0.3	+0.2	+0.4	+0.2	0.1	0.1	0.1

- Represents zero.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Oct. 1981P	Sept. 1981 ^F	Aug. 1981	July 1981	Oct. 1981P	Sept. 1981 ^F	Aug. 1981	July 1981
All manufacturing industries.....	1.69	1.64	1.61	1.60	3.74	3.68	3.67	3.65
Durable goods industries.....	2.25	2.15	2.10	2.07	4.47	4.41	4.37	4.36
Stone, clay, and glass products.....	1.81	1.75	1.71	1.56	0.63	0.60	0.64	0.62
Primary metals.....	2.28	2.16	2.04	2.00	2.50	2.46	2.40	2.43
Fabricated metals.....	2.08	1.99	1.94	1.90	3.17	3.14	3.13	3.16
Machinery, except electrical.....	2.48	2.42	2.40	2.40	4.71	4.72	4.68	4.74
Electrical machinery.....	2.37	2.27	2.25	2.22	4.46	4.42	4.34	4.31
Transportation equipment.....	2.31	2.08	1.99	2.05	11.43	10.91	10.54	10.93
Instruments and related products.....	2.25	2.27	2.28	2.22	1.66	1.64	1.69	1.67
Nondurable goods industries.....	1.12	1.11	1.10	1.10	1.10	0.65	0.67	0.66
Food and kindred products.....	0.97	0.97	0.98	0.96	(X)	(X)	(X)	(X)
Tobacco products.....	3.68	3.27	3.31	3.15	(X)	(X)	(X)	(X)
Textile mill products.....	1.66	1.50	1.48	1.47	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.34	1.31	1.31	1.30	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.36	1.31	1.31	1.30	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.34	0.57	0.57	0.61	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.41	1.44	1.42	1.37	(X)	(X)	(X)	(X)

(NA) Not available.

P Preliminary.

F Revised.

(X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

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Manufacturers' Shipments, Inventories, and Orders

NOVEMBER 1981

M3-1(81)-11

For Wire Transmission 10:30 A.M. E.S.T. Thursday, December 31, 1981



U.S. Department of Commerce
BUREAU OF THE CENSUS

M3-1(81)-11

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods showed a small increase in November, going up \$0.4 billion or 0.2 percent from October to \$159.4 billion, the Department of Commerce, Bureau of the Census reported today. This is the first increase in orders since July. Excluding orders for defense capital goods, new orders were down 0.4 percent.

Shipments of manufactured goods declined for the 5th consecutive month, decreasing \$2.2 billion or 1.4 percent from October to \$161.9 billion. Despite the increase in November new orders, the value remained below shipments for the month, resulting in a decline in the orders backlog of \$2.5 billion or 0.8 percent to \$321.1 billion. The orders backlog had declined in October by 1.5 percent.

The 0.2 percent increase in manufacturers' new orders resulted from offsetting movements in the durable and nondurable goods industries. New orders for durable goods were estimated at \$79.1 billion, up \$1.3 billion or 1.7 percent from October; new orders for nondurable goods, which for the most part reflect shipments for the month, declined \$0.9 billion or 1.1 percent to \$80.3 billion.

Within the durable goods industries, the largest increases occurred in the machinery categories: new orders for electrical machinery increased \$1.5 billion or 14.3 percent to \$11.9 billion, while new orders for nonelectrical machinery were up \$0.5 billion or 3.4 percent to \$16.5 billion. These increases followed October declines of 17.0 percent and 8.7 percent respectively.

New orders for nondefense capital goods, reflecting the machinery order increases, were up 10.0 percent from October to \$23.1 billion. New orders for defense capital goods were up \$1.0 billion or 26 percent to \$4.8 billion, following an October decline of 42 percent.

Declines in the value of manufacturers' shipments in November were widespread. Within the durable goods sector, virtually all major industries except electrical and nonelectrical machinery were down. Shipments of primary metals in November were valued at \$10.6 billion, down for the third consecutive

month. This 4.1 percent decline followed decreases in October of 4.7 percent and September of 3.1 percent. Both the steel and nonferrous categories have been showing steady declines. Within the transportation equipment category, shipments by the motor vehicle and parts industries were down for the 5th consecutive month. November shipments were valued at \$10.0 billion, a 6.3 percent decline from October. The motor vehicle industry decline in November was partially offset by increases in the aircraft and shipbuilding industries.

The decline in shipments by nondurable goods manufacturers in November of 1.1 percent matched the October decline of 1.1 percent. Declines in food, petroleum, and rubber and plastic products shipments were partially offset by increases in most of the other categories.

The book value of manufacturers' inventories in November increased \$1.1 billion or 0.4 percent from October to \$279.6 billion. Most of the durable and nondurable goods industries reported small increases, but the motor vehicle and parts industry showed an inventory decline of \$0.4 billion or 3.9 percent to \$9.1 billion.

With the decline in shipments over the last several months the inventory to shipments ratio has now climbed to 1.73. This is the highest it has been since the second quarter last year when the ratio rose to 1.76 in May and June.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for December is scheduled for release on January 22, 1982, and the full report is scheduled for release on February 2, 1982.

A description of the survey methodology and related information may be found in the summary report in this series for 1980 M31.10 Manufacturers' Shipments, Inventories and Orders: 1972-1980, issued July 1981.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

TABLE 1. VARIATION IN TEMPERATURES OF THE INDIAN SEA, ARABIAN OCEAN, AND SOUTHEASTERN ATLANTIC OCEAN, 1950-1959, BY MONTH AND LATITUDE. (Continued)

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES—Continued

SIC	Industry	(millions of dollars)									
		Seasonally adjusted					Not seasonally adjusted ¹				
		Monthly					Monthly				
		Oct. 1967 ²	Sept. 1967	Aug. 1967	July 1967	June 1967	Oct. 1967 ²	Sept. 1967	Aug. 1967	July 1967	June 1967
INDUSTRIES AND INDUSTRIES— (continued)	Durable goods and industries— Continued	New, 1967 ³	11 1967	12 1967	1 1968	2 1968	New, 1967 ³	11 1967	12 1967	1 1968	2 1968
		11 1967	12 1967	1 1968	2 1968	3 1968	11 1967	12 1967	1 1968	2 1968	3 1968
36	Electrical machinery,	11,471	11,262	11,667	11,682	35,062	54,469	33,131	11,670	11,479	11,459
36,1	Electrical transmission and										
36,2	Industrial apparatus,	1,974	1,968	1,941	1,978	5,738	5,738	5,738	1,978	1,978	1,978
36,3	Household appliances,	1,059	1,020	1,111	1,175	3,459	3,459	3,459	1,020	1,111	1,175
36,4	Refrigerators,	1,059	1,020	1,111	1,175	3,459	3,459	3,459	1,020	1,111	1,175
36,5	Communications equipment,	3,223	3,228	3,182	3,277	8,693	8,693	8,693	3,228	3,182	3,277
36,6	Electronic components,	7,196	7,243	7,285	7,314	21,491	21,491	21,491	7,243	7,285	7,314
36,7	Transportation equipment,	16,754	17,198	18,456	19,441	58,531	58,531	58,531	16,754	17,198	18,456
36,8	Motor vehicles and parts,	10,018	10,936	11,971	12,379	36,731	36,731	36,731	10,018	10,936	11,971
36,9	Parts, accessories, and										
37	Shipbuilding and military	4,795	4,536	4,936	4,967	14,436	14,436	14,436	4,795	4,536	4,936
37,1	Shipbuilding,										
37,2	Transportation and military										
37,3	Shipbuilding,										
37,4	Transportation and military										
37,5	Shipbuilding,										
37,6	Transportation and military										
37,7	Shipbuilding,										
37,8	Transportation and military										
37,9	Shipbuilding,										
38	Instruments and related	7,664	8,059	7,985	7,896	24,348	24,348	24,348	7,664	8,059	7,985
38,1	Instruments,										
38,2	Related products,										
38,3	Instruments,										
38,4	Related products,										
38,5	Instruments,										
38,6	Related products,										
38,7	Instruments,										
38,8	Related products,										
38,9	Instruments,										
39	All other durable goods	7,664	8,059	7,985	7,896	24,348	24,348	24,348	7,664	8,059	7,985
39,1	Household durables,										
39,2	Household durables,										
39,3	Household durables,										
39,4	Household durables,										
39,5	Household durables,										
39,6	Household durables,										
39,7	Household durables,										
39,8	Household durables,										
39,9	Household durables,										
40	Non-durable goods, industries	21,619	22,077	22,611	22,853	67,317	67,317	67,317	21,619	22,077	22,611
40,1	Food and kindred products,	5,582	5,582	5,582	5,582	16,746	16,746	16,746	5,582	5,582	5,582
40,2	Beverages,	2,897	2,897	2,897	2,897	8,691	8,691	8,691	2,897	2,897	2,897
40,3	Tobacco products,	1,175	1,175	1,175	1,175	3,525	3,525	3,525	1,175	1,175	1,175
40,4	Textile mill products,	3,844	4,001	4,217	4,414	13,481	13,481	13,481	3,844	4,001	4,217
40,5	Paper and allied products,	9,530	9,689	9,837	9,984	29,791	29,791	29,791	9,530	9,689	9,837
40,6	Printing, publishing, and	1,825	1,825	1,825	1,825	5,475	5,475	5,475	1,825	1,825	1,825
40,7	Chemical and allied products,	15,339	15,053	15,489	15,758	46,875	46,875	46,875	15,339	15,053	15,489
40,8	Chemical and allied products,										
40,9	Chemical and allied products,										
41	Non-durable goods, industries	21,619	22,077	22,611	22,853	67,317	67,317	67,317	21,619	22,077	22,611
41,1	Food and kindred products,										
41,2	Beverages,										
41,3	Tobacco products,										
41,4	Textile mill products,										
41,5	Paper and allied products,										
41,6	Printing, publishing, and										
41,7	Chemical and allied products,										
41,8	Chemical and allied products,										
41,9	Chemical and allied products,										
42	Household durables, industries	5,582	5,582	5,582	5,582	16,746	16,746	16,746	5,582	5,582	5,582
42,1	Household durables,										
42,2	Household durables,										
42,3	Household durables,										
42,4	Household durables,										
42,5	Household durables,										
42,6	Household durables,										
42,7	Household durables,										
42,8	Household durables,										
42,9	Household durables,										
43	All other non-durable goods	12,651	12,965	13,401	13,758	40,571	40,571	40,571	12,651	12,965	13,401
43,1	Household durables,										
43,2	Household durables,										
43,3	Household durables,										
43,4	Household durables,										
43,5	Household durables,										
43,6	Household durables,										
43,7	Household durables,										
43,8	Household durables,										
43,9	Household durables,										
44	Household durables, industries	12,651	12,965	13,401	13,758	40,571	40,571	40,571	12,651	12,965	13,401
44,1	Household durables,										
44,2	Household durables,										
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44,6	Household durables,										
44,7	Household durables,										
44,8	Household durables,										
44,9	Household durables,										

¹Supplements and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations.

²The supplementary series are recomputations of the separate industry categories as follows:

Household durable goods industries—household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radio and TV, upholstered goods, articles, and linens; miscellaneous personal goods.

Capital goods industries—comparable to the previous producers' capital goods and the defense products (old series) categories.

Non-durable goods industries—textile mill products, paper and allied products, printing, publishing, and communications, food and kindred products, beverages, tobacco products, and other non-durable goods.

Defense products—based on separate reports on defense work filed by large-defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the 85-17 Shipments and Inventories of Manufacturers.

Table 1. VALUE OF MANUFACTURES: UNFILED ORDERS FOR INDUSTRIAL GROUPS, VARIETY CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry Group	Seasonally adjusted											
		Monthly			Quarterly							Yearly	
		Nov. 1981 p	Oct. 1981 p	Sept. 1981	Aug. 1981	July 1981	June 1981	May 1981	April 1981	March 1981	Feb. 1981	Jan. 1981	Dec. 1980
20	INDUSTRIAL GROUP AND INDUSTRIES--Continued												
30	Durable goods industries--												
301	Electrical machinery.....	51,017	50,634	51,525	50,797	50,135	49,494	47,225	45,819	44,341	42,577	40,424	38,124
302	Electrical transmission and distribution equipment.....	8,140	8,055	8,429	8,469	8,392	8,361	7,467	7,905	8,107	8,073	8,039	7,983
303	Industrial apparatus.....	231	216	216	289	378	432	411	422	416	406	376	354
304	Radio and television sets.....	231	216	216	289	378	432	411	422	416	406	376	354
305	Radio and television sets.....	231	216	216	289	378	432	411	422	416	406	376	354
306	Communication equipment.....	28,960	28,263	28,823	27,963	27,547	26,345	25,427	23,863	22,802	21,837	20,616	19,276
307	Electronic components.....	12,049	12,122	12,047	12,133	12,107	11,733	11,014	12,135	12,095	11,868	11,464	10,984
308	Transceiver equipment.....	115,276	116,657	118,073	118,405	115,935	116,198	113,343	114,513	116,840	116,282	117,223	115,590
309	Aircraft, missiles, and spacecraft.....	91,226	92,040	93,126	92,448	90,506	91,294	88,371	93,444	88,524	92,030	92,446	91,068
310	Shipyards and shipbuilding.....	16,967	16,972	17,303	17,459	16,953	16,478	16,387	13,421	13,440	17,151	17,157	17,181
311	Transportation and related products.....	7,247	7,059	7,067	7,120	7,050	7,012	6,987	6,963	6,964	7,151	7,036	7,001
312	All other durable goods industries.....	4,675	4,678	4,893	4,791	4,955	4,915	4,767	4,953	4,964	4,532	4,745	4,697
32	Non-durable goods industries--												
321	Food and kindred products.....												
322	Textile mill product.....												
323	Apparel.....												
324	Shoe and leather goods.....												
325	Furniture and home furnishings.....												
326	Household appliances.....												
327	Household electrical, electronic, and communication equipment.....												
328	Household furniture.....												
329	All other non-durable goods industries.....												
33	Capital goods industries--												
331	Transportation and related products.....												
332	Transportation and related products.....												
333	Transportation and related products.....												
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Table 4. VALUE OF MANUFACTURES' INVENTORIES FOR INDUSTRY CROUITS, MARKET (ATP-001115), AND SUPPLEMENTARY SERIES—Continued

Table 6. PERCENT CHANGE AND LAGS FOR MANUFACTURER SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent change								Lags ²		
	Month-to-month			Average month		Percent change			Average month		
	Oct. 1981 Nov. 1981	Sept. 1981-Oct. 1981	Aug. 1981- Sept. 1981	Third quarter 1981	Second quarter 1981	First quarter 1981	Dec., 1980 to Oct. Nov. 1981		1980	Nov. 1980 to Oct. 1981	Nov. 1976-1980
Shipments											
All manufacturing industries.....	-1.4	2.7	1.6	1.6	+1.4	+3.9	-	1.4	0.2	1.1	
Durable goods industries.....	-1.6	3.1	-0.8	1.1	+1.9	+0.6	-0.2	0.7	0.4	0.6	
Nondurable goods industries.....	-1.1	-1.1	-0.3	-0.1	+0.8	0.1	+0.2	0.2	0.3	0.3	
Inventories											
All manufacturing industries.....	-0.4	+0.7	+1.1	+1.8	+0.4	+1.1	+0.7	0.1	0.1	0.1	
New orders											
All manufacturing industries.....	+0.2	-5.6	1.1	-0.5	+1.2	+0.1	-0.2	0.5	0.3	0.1	
Durable goods industries.....	+1.7	-9.8	-1.2	-0.8	+0.8	+1.1	-0.5	0.1	0.0	0.1	
Nondurable goods industries.....	-1.1	-1.2	-0.7	0.1	+0.3	+0.1	0.3	0.3	0.3	0.1	
Unfilled orders											
Durable goods industries.....	-0.7	-1.5	0.0	0.1	+0.2	+0.1	+0.1	0.0	0.1	0.1	

- Represents zero.

¹ Method of calculation of these percentages for the quarter and the 12-month time intervals reflect separate monthly growth rates.² The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURER INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Nov. 1981 ^D	Oct. 1981 ^F	Sept. 1981	Aug. 1981	Nov. 1981 ^D	Oct. 1981 ^F	Sept. 1981	Aug. 1981
All manufacturing industries.....	1.73	1.70	1.64	1.61	3.73	3.74	3.68	3.67
Durable goods industries.....	2.39	2.26	2.15	2.10	4.44	4.40	4.21	4.17
Stone, clay, and glass products.....	1.40	1.40	1.74	1.71	0.65	0.65	1.60	1.64
Primary metals.....	1.34	2.26	2.16	2.04	2.55	2.50	2.48	2.40
Textile mill products.....	2.15	2.06	1.99	1.95	3.31	3.17	3.14	3.13
Machinery, except electrical.....	2.48	2.30	2.42	2.40	4.57	4.75	4.72	4.68
Electrical machinery.....	2.36	2.39	2.27	2.23	4.45	4.50	4.62	4.34
Transportation equipment.....	2.60	2.34	2.08	1.99	11.27	11.54	10.41	10.54
Instruments and related products.....	2.35	2.29	2.27	2.28	1.76	1.66	1.64	1.69
Nondurable goods industries.....	1.13	1.13	1.11	1.10	0.62	0.64	0.65	0.67
Food and kindred products.....	1.00	0.98	0.97	0.98	(X)	(X)	(X)	(X)
Tobacco products.....	1.64	1.68	1.77	1.31	(X)	(X)	(X)	(X)
Textile mill products.....	1.71	1.64	1.50	1.48	(X)	(X)	(X)	(X)
Paper and allied products.....	1.15	1.14	1.31	1.31	(X)	(X)	(X)	(X)
Chemicals and allied products.....	1.35	1.18	1.31	1.31	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.55	0.53	0.57	0.57	(X)	(X)	(X)	(X)
Rubber and plastic products, except.....	1.64	1.63	1.44	1.42	(X)	(X)	(X)	(X)

(X) Not available.

^D Preliminary.^F Revision.

(X) Not applicable.

¹ Includes the following industries with no unfilled orders: Wood and lumber products; clay and brick products; stone, clay, and glass products; food and kindred products; tobacco products; paper and allied products; chemicals and allied products; petroleum and coal products; and rubber and plastic products, except.

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Manufacturers' Shipments, Inventories, and Orders

DECEMBER 1981

M3-1(81)-12

For Wire Transmission 2:30 P.M. E.S.T. Tuesday, February 2, 1982

(All figures in text below are in seasonally adjusted current dollars.)

U.S. Department of Commerce
BUREAU OF THE CENSUS

New orders for manufactured goods in December showed a small increase from November, going up \$0.4 billion or 0.2 percent to \$160.3 billion, the Department of Commerce, Bureau of the Census reported today. This brought orders for the year to \$1,999 billion, a 7.4 percent increase over the 1980 volume of \$1,862 billion.

Shipments of manufactured goods declined for the sixth consecutive month, decreasing \$0.4 billion or 0.2 percent to \$161.6 billion. Shipments for all of 1981 were valued at \$1,999 billion, the same as new orders received for the year. Consequently, the value of manufacturers' unfilled orders at the end of 1981 showed no increase from the \$320 billion level reported at the end of 1980.

The book value of manufacturers' inventories declined in December by \$2.4 billion or 0.8 percent to \$277.2 billion. Inventories at the end of 1981 were valued at 7.4 percent higher than at the end of 1980.

The 0.2 percent increase in manufacturers' new orders in December resulted from increases in both the durable and nondurable goods categories. Durable goods new orders were up 0.3 percent in December to \$80.2 billion. This is smaller than the 1.6 percent increase recorded in the advance report published earlier. More complete reporting by machinery producers generated revision to both the November and December new orders previously published. November new orders for durable goods are now recorded as 2.8 percent above October rather than 1.8 percent.

Within the major industry categories, new orders for transportation equipment were up \$0.7 billion or 4.3 percent to \$16.1 billion, mostly due to new orders in the defense aircraft and parts category. New orders for primary metals declined for the 5th consecutive month. The December decrease was \$0.5 billion or 5.4 percent to \$9.5 billion. Machinery orders were relatively flat for the month, going up \$0.1 billion or 0.3 percent to \$29.4 billion.

New orders for the nondefense capital goods industries as a group were down in December \$1.0 billion or 4.2 percent, following increases in October and November of 7.4 percent and 13.4 percent, respectively. New orders for defense capital goods were up \$0.6 billion or 12.5 percent to \$5.5 billion. Defense orders for all of 1981 averaged \$5.2 billion per month as compared to the 1980 average of \$4.7 billion for a 10.6 percent average gain.

The decline in the value of manufacturers' shipments in December of \$0.4 billion resulted mostly from declines in the durable goods sector. The largest decline was in shipments by primary metals producers of \$0.8 billion or 7.5 percent to \$9.8 billion. Within the nondurable goods category, shipments valued at \$80.4 billion, showed no change from November.

The December decrease in the level of Manufacturers' unfilled orders of \$1.4 billion or 0.4 percent to \$320.1 billion reflected a large decline in the nondefense capital goods category, where the commercial aircraft and parts industry reported a sizable decline. The backlog of defense orders increased in December \$0.9 billion or 1.1 percent to \$80.4 billion.

Declines in the book value of manufacturers' inventories which resulted in an 0.8 percent decline for the month were widespread. Within the durable goods category nearly all major industry groups reported declines; within the nondurable goods category the largest decreases occurred in the food, and rubber and plastics products industries.

The pattern of change in inventories by stage of fabrication differed between the durable and nondurable categories. For durable goods most of the decrease was in raw materials and supplies, although work in process inventories also declined. The value of finished goods showed little change from November. For nondurables, finished goods inventories accounted for the decline.

The inventory to shipments ratio in December was 1.72, down from 1.73 in November. This is the first decline in the ratio since June when it was 1.57.

The estimates for December are generally subject to greater revisions than other months. These revisions are attributable to corrections to early estimates by companies and to the lower than normal response rates, as reporting is delayed by year end closing of records. For example, based on data from January 1972 through December 1980, the average monthly revision to durable goods new orders was 1.1 percent; for January through November the rate was 1.0 percent, while the average December change was 1.6 percent.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	Seasonally adjusted										Not seasonally adjusted									
		Monthly					Quarterly					Last 4 months					Last 4 months 3 years ago				
		Dec 1961	Jan 1962	Feb 1962	Mar 1962	Apr 1962	1961	1962	1963	1964	1965	1961	1962	1963	1964	1965	1961	1962	1963	1964	1965
	TOTALS	161,629	161,479	168,485	167,999	169,481	666,111	666,111	666,111	666,111	666,111	161,629	161,479	168,485	167,999	169,481	161,629	161,479	168,485	167,999	169,481
	All manufacturing industries.....	144,344	145,176	149,653	149,653	149,653	587,382	587,382	587,382	587,382	587,382	144,344	145,176	149,653	149,653	149,653	144,344	145,176	149,653	149,653	149,653
	Manufacturing industries excluding transportation and warehousing.....	85,799	86,346	86,516	86,181	85,799	348,882	348,882	348,882	348,882	348,882	85,799	86,346	86,516	86,181	85,799	85,799	86,346	86,516	86,181	85,799
	Durable goods industries.....	81,275	81,641	86,179	86,179	86,179	348,882	348,882	348,882	348,882	348,882	81,275	81,641	86,179	86,179	86,179	81,275	81,641	86,179	86,179	86,179
	Durable goods with unfilled orders.....	68,729	69,331	74,650	74,650	74,650	348,882	348,882	348,882	348,882	348,882	68,729	69,331	74,650	74,650	74,650	68,729	69,331	74,650	74,650	74,650
	Nondurable goods industries.....	80,054	80,338	81,502	80,402	80,402	348,882	348,882	348,882	348,882	348,882	80,054	80,338	81,502	80,402	80,402	80,054	80,338	81,502	80,402	80,402
	Nondurable goods with unfilled orders.....	17,070	17,015	16,366	17,070	17,070	348,882	348,882	348,882	348,882	348,882	17,070	17,015	16,366	17,070	17,070	17,070	17,015	16,366	17,070	17,070
	MARKET CATEGORIES																				
	Home goods and apparel.....	11,729	11,793	12,117	12,117	12,117	48,495	48,495	48,495	48,495	48,495	11,729	11,793	12,117	12,117	12,117	11,729	11,793	12,117	12,117	12,117
	Consumer staples.....	28,576	28,506	29,664	29,664	29,664	87,495	87,495	87,495	87,495	87,495	28,576	28,506	29,664	29,664	29,664	28,576	28,506	29,664	29,664	29,664
	Equipment and defense products.....	26,751	26,236	25,163	25,163	25,163	87,495	87,495	87,495	87,495	87,495	26,751	26,236	25,163	25,163	25,163	26,751	26,236	25,163	25,163	25,163
	Automotive equipment.....	11,783	11,600	12,443	12,443	12,443	48,495	48,495	48,495	48,495	48,495	11,783	11,600	12,443	12,443	12,443	11,783	11,600	12,443	12,443	12,443
	Construction materials, supplies, and intermediate products.....	11,429	11,564	12,117	12,117	12,117	48,495	48,495	48,495	48,495	48,495	11,429	11,564	12,117	12,117	12,117	11,429	11,564	12,117	12,117	12,117
	Other materials, supplies, and intermediate products.....	71,361	72,280	74,414	74,414	74,414	287,551	287,551	287,551	287,551	287,551	71,361	72,280	74,414	74,414	74,414	71,361	72,280	74,414	74,414	74,414
	SUPPLEMENTARY SERIES?																				
	Household durable goods industries.....	5,148	5,138	5,148	5,148	5,148	18,148	18,148	18,148	18,148	18,148	5,148	5,138	5,148	5,148	5,148	5,148	5,138	5,148	5,148	5,148
	Consumer durables.....	24,038	24,433	23,534	23,534	23,534	87,495	87,495	87,495	87,495	87,495	24,038	24,433	23,534	23,534	23,534	24,038	24,433	23,534	23,534	23,534
	Nondefense.....	4,572	4,502	4,337	4,337	4,337	18,148	18,148	18,148	18,148	18,148	4,572	4,502	4,337	4,337	4,337	4,572	4,502	4,337	4,337	4,337
	INDUSTRY GROUPS AND INDUSTRIES																				
	Durable goods industries:																				
	Stone, clay, and glass products.....	3,791	3,860	3,845	4,024	4,024	12,778	12,778	12,778	12,778	12,778	3,791	3,860	3,845	4,024	4,024	3,791	3,860	3,845	4,024	4,024
	Glass containers.....	10,494	10,494	10,494	10,494	10,494	35,648	35,648	35,648	35,648	35,648	10,494	10,494	10,494	10,494	10,494	10,494	10,494	10,494	10,494	10,494
	Primary metals.....	9,534	9,534	9,534	9,534	9,534	31,602	31,602	31,602	31,602	31,602	9,534	9,534	9,534	9,534	9,534	9,534	9,534	9,534	9,534	9,534
	Nonferrous and other primary metals.....	3,841	4,152	4,368	4,611	4,611	12,341	12,341	12,341	12,341	12,341	3,841	4,152	4,368	4,611	4,611	3,841	4,152	4,368	4,611	4,611
	Fabricated metal products.....	9,622	9,999	10,286	10,286	10,286	31,602	31,602	31,602	31,602	31,602	9,622	9,999	10,286	10,286	10,286	9,622	9,999	10,286	10,286	10,286
	Metal cans, barrels, and drums.....	845	812	797	778	778	2,854	2,854	2,854	2,854	2,854	845	812	797	778	778	845	812	797	778	778
	Machinery.....	17,127	17,446	16,924	17,153	17,153	51,497	51,497	51,497	51,497	51,497	17,127	17,446	16,924	17,153	17,153	17,127	17,446	16,924	17,153	17,153
	Engines and turbines.....	1,380	1,492	1,193	1,429	1,429	4,404	4,404	4,404	4,404	4,404	1,380	1,492	1,193	1,429	1,429	1,380	1,492	1,193	1,429	1,429
	Farm machinery and equipment.....	1,194	1,151	1,182	1,180	1,180	3,527	3,527	3,527	3,527	3,527	1,194	1,151	1,182	1,180	1,180	1,194	1,151	1,182	1,180	1,180
	Construction, mining, and material-handling equipment.....	3,583	3,588	3,376	3,376	3,376	10,534	10,534	10,534	10,534	10,534	3,583	3,588	3,376	3,376	3,376	3,583	3,588	3,376	3,376	3,376
	Transportation equipment.....	1,402	1,402	1,402	1,402	1,402	4,381	4,381	4,381	4,381	4,381	1,402	1,402	1,402	1,402	1,402	1,402	1,402	1,402	1,402	1,402
	General industrial machinery.....	1,462	1,480	1,421	1,421	1,421	4,381	4,381	4,381	4,381	4,381	1,462	1,480	1,421	1,421	1,421	1,462	1,480	1,421	1,421	1,421

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

Industry	Seasonally adjusted												Not seasonally adjusted ¹												Annual total	
	Monthly					Quarterly					Monthly					Last 4 months										
	1981					1981					1981					1981										
	Dec. 1981P	Nov. 1981P	Oct. 1981	Sep. 1981	IV 1981P	III 1981	II 1981	I 1981	Dec. 1981P	Nov. 1981P	Oct. 1981	Sep. 1981	Dec. 1981P	Nov. 1980	Oct. 1980	Sep. 1980	1981P	1980								
INDUSTRY GROUPS AND INDUSTRIES-- (Continued)																										
Durable goods and industries-- Continued																										
Electrical machinery.....	11,587	11,433	11,262	11,667	34,282	35,062	34,649	11,422	11,583	11,839	12,339	10,596	11,201	11,459	11,169	136,993	125,907	125,907								
Electrical transmission and distribution equipment and materials.....	1,999	1,903	1,868	1,841	5,770	5,901	5,738	1,887	1,873	1,897	1,968	1,821	1,879	1,878	1,871	22,801	21,869	21,869								
Household appliances.....	1,046	1,028	1,020	1,113	3,124	3,291	3,459	961	962	1,081	1,091	800	1,019	993	1,460	10,614	9,902	9,902								
Radio and television sets.....	802	838	965	2,646	2,610	2,289	2,859	905	961	1,002	1,115	800	1,019	993	1,460	10,614	9,902	9,902								
Communication equipment.....	3,241	3,242	3,245	3,184	9,726	9,625	9,507	3,350	3,213	3,239	3,284	2,862	2,862	2,895	2,944	33,571	30,977	30,977								
Electronic components.....	17,508	17,508	17,508	17,508	51,516	51,516	51,516	17,508	17,508	17,508	17,508	17,508	17,508	17,508	17,508	17,508	17,508	17,508								
Transportation equipment.....	10,018	10,018	10,018	10,018	30,054	30,054	30,054	10,018	10,018	10,018	10,018	10,018	10,018	10,018	10,018	10,018	10,018	10,018								
Motor vehicles, and aircraft, missiles, and parts.....	5,171	4,789	4,551	4,938	14,510	14,510	14,510	4,942	4,846	4,475	5,177	4,751	4,678	4,617	4,843	59,415	51,007	51,007								
Shipbuilding and military tanks, vehicles, and aerospace.....	1,136	1,216	1,095	1,451	3,867	3,867	3,867	1,275	1,234	1,167	1,129	1,018	1,018	1,016	1,084	13,943	12,606	12,606								
Products.....	4,235	4,146	4,261	4,399	12,643	12,643	12,643	4,235	4,268	4,395	4,587	4,059	4,104	4,124	4,136	50,242	45,693	45,693								
Scientific and engineering.....	2,532	2,532	2,532	2,532	7,596	7,596	7,596	2,529	2,545	2,585	2,708	2,384	2,308	2,414	2,378	29,404	26,573	26,573								
Photographic goods.....	1,439	1,402	1,459	1,486	4,376	4,376	4,387	1,460	1,519	1,511	1,602	1,422	1,532	1,522	1,497	17,352	16,270	16,270								
All other durable goods industries.....	7,794	7,854	8,059	7,985	23,697	24,338	25,524	7,687	7,766	8,713	8,780	7,471	8,130	8,820	8,691	98,462	93,464	93,464								
Nondurable goods industries ²	21,557	21,493	22,377	22,421	65,127	67,512	67,337	21,603	21,960	22,763	23,316	22,383	22,574	22,677	23,102	269,371	254,745	254,745								
Food and kindred products.....	2,462	2,462	2,462	2,462	7,386	7,386	7,386	2,462	2,462	2,462	2,462	2,462	2,462	2,462	2,462	25,371	25,371	25,371								
Textile mill products.....	1,730	1,665	1,730	1,730	5,210	5,210	5,169	1,717	1,752	1,772	1,791	1,752	1,831	1,672	1,666	20,927	19,177	19,177								
Fats and oils.....	8,301	8,451	8,752	8,866	25,506	26,509	27,221	8,633	8,680	9,023	9,408	9,773	9,602	9,538	10,242	107,077	108,123	108,123								
All other foods.....	1,192	1,173	1,099	1,211	3,494	3,593	3,283	1,217	1,194	1,164	1,190	1,159	1,091	1,167	1,028	13,622	12,466	12,466								
Tobacco products.....	3,950	3,950	3,950	3,950	11,850	13,337	13,012	3,774	4,001	4,320	4,713	3,689	3,800	4,066	4,320	50,753	46,167	46,167								
Paper and allied products.....	2,809	2,809	2,809	2,809	8,427	8,427	8,427	2,809	2,809	2,809	2,809	2,809	2,809	2,809	2,809	34,371	31,912	31,912								
Pulp, paper, and other products.....	1,671	1,671	1,671	1,671	5,013	5,013	5,013	1,671	1,671	1,671	1,671	1,671	1,671	1,671	1,671	19,236	17,880	17,880								
All other paper products.....	15,492	15,492	15,492	15,492	46,406	46,406	46,406	15,492	15,492	15,492	15,492	15,492	15,492	15,492	15,492	182,566	167,099	167,099								
Chemicals and allied products.....	5,261	5,128	5,261	5,261	15,648	16,289	16,135	5,034	5,034	5,034	5,034	5,034	5,034	5,034	5,034	64,084	59,967	59,967								
Industrial chemicals, ex-	3,920	3,920	3,920	3,920	11,760	12,280	12,280	3,920	3,920	3,920	3,920	3,920	3,920	3,920	3,920	45,626	44,890	44,890								
cept pigments, and toiletries.....	13,435	13,435	13,435	13,435	39,749	40,749	40,749	13,435	13,435	13,435	13,435	13,435	13,435	13,435	13,435	194,593	176,598	176,598								
Petroleum and coal products.....	3,789	3,692	3,945	3,971	11,376	12,096	11,886	3,413	3,525	4,152	4,067	3,590	4,027	4,384	4,160	46,726	48,060	48,060								
Rubber and plastics products.....																										
n.e.c.....																										
All other nondurable goods industries.....	12,367	12,405	12,599	12,597	37,071	37,992	36,304	11,411	11,703	13,567	13,414	10,513	12,187	12,713	12,337	146,345	133,105	133,105								
Footnotes: 1. Excludes the following industries: 2. Excludes the following industries:																										

¹ Preliminary.

² Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations.

³ The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances; radio and TV, electronic components, and capital goods industries--comparable to the previous producers' capital goods (old series) categories.

Nondurable products--all items, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondurable portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The 1980s are comparable to those published annually in the 60-17. Shipments to Federal Government Agencies (formerly Shipments of Defense-Related Industries), for the specified industries.

Millions of dollars

Industry	Imports				Exports				Net				Annual Total	
	1963-1964				1964-1965				1965-1966					
	1963	1964	1965	1966	1964	1965	1966	1967	1965	1966	1967	1968		
MANUFACTURES														
All manufacturing industries.....	160,227	159,425	149,444	131,116	116,136	116,136	116,136	171,754	144,736	144,736	161,251	1,860,706		
Food and kindred products.....	13,167	13,284	13,284	13,284	13,284	13,284	13,284	13,284	13,284	13,284	13,284	1,860,706		
Textile mill products.....	89,067	89,067	89,067	89,067	89,067	89,067	89,067	89,067	89,067	89,067	89,067	89,067		
Lumber and wood products.....	85,185	85,185	85,185	85,185	85,185	85,185	85,185	85,185	85,185	85,185	85,185	85,185		
Furniture and other miscellaneous products.....	67,608	67,608	67,608	67,608	67,608	67,608	67,608	67,608	67,608	67,608	67,608	67,608		
Chemical and allied products.....	80,143	80,143	80,143	80,143	80,143	80,143	80,143	80,143	80,143	80,143	80,143	80,143		
Nonferrous metals and metal products.....	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000		
Fertilizers.....	63,286	63,286	63,286	63,286	63,286	63,286	63,286	63,286	63,286	63,286	63,286	63,286		
Instruments, related, and miscellaneous.....	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708		
Transportation equipment.....	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428		
Automotive equipment.....	11,963	11,963	11,963	11,963	11,963	11,963	11,963	11,963	11,963	11,963	11,963	11,963		
Construction materials, supplies, and intermediate products.....	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000		
Other materials, supplies, and intermediate products.....	71,000	71,000	71,000	71,000	71,000	71,000	71,000	71,000	71,000	71,000	71,000	71,000		
MINERAL PRODUCTS														
Crude oil and refined petroleum products.....	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708		
Crude oil.....	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708		
Refined petroleum products.....	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428		
Natural gas.....	11,963	11,963	11,963	11,963	11,963	11,963	11,963	11,963	11,963	11,963	11,963	11,963		
Fruits and vegetables.....	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000		
Livestock and livestock products.....	71,000	71,000	71,000	71,000	71,000	71,000	71,000	71,000	71,000	71,000	71,000	71,000		
Forestry products.....	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708	11,708		
Fishing and fishing products.....	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428		
Miscellaneous agricultural products.....	11,963	11,963	11,963	11,963	11,963	11,963	11,963	11,963	11,963	11,963	11,963	11,963		
SUPPLEMENTARY SERIES														
Household durable goods (includes capital goods industries).....	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179		
Nonferrous metals.....	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428	25,428		
Chemicals.....	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179		
INDUSTRY GROUPS AND INDUSTRIES														
Primary goods industries.....	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179		
Primary metals.....	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179		
Nonferrous metals.....	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179		
Textile mill products.....	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179		
Lumber and wood products.....	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179		
Furniture and other miscellaneous products.....	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179		
Chemical and allied products.....	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179		
Nonferrous metals and metal products.....	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179		
Fertilizers.....	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179		
Instruments, related, and miscellaneous.....	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179		
Transportation equipment.....	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179		
Automotive equipment.....	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179		
Construction materials, supplies, and intermediate products.....	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179		
Other materials, supplies, and intermediate products.....	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179	1,179		

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURES' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--4 continued
(Millions of dollars)

SIC	Industry	Seasonally adjusted				Quarterly				Monthly				Not seasonally adjusted ¹				Annual total	
		Monthly				Quarterly				Last 4 months a year ago				Monthly				Annual total	
		Last 4 months				Last 4 months				Last 4 months a year ago				Last 4 months a year ago				Annual total	
		Dec. 1981P	Nov. 1981P	Oct. 1981	Sept. 1981	IV 1981P	III 1981	II 1981	I 1981	Dec. 1981P	Nov. 1981P	Oct. 1981	Sept. 1981	Dec. 1981P	Nov. 1981P	Oct. 1981	Sept. 1981	1981P	1980
36	INDUSTRY GROUPS AND INDUSTRIES-- (continued)	12,021	11,873	10,370	12,487	34,264	36,462	36,281	11,461	11,589	11,267	12,818	10,573	11,426	12,135	10,815	161,187	130,744	
361,2	Durable goods industries-- (continued)																		
361	Electrical machinery.....	2,094	1,989	1,664	1,901	5,577	5,937	5,770	1,416	1,389	1,368	1,911	1,820	1,734	1,475	1,717	23,061	22,221	
362	Industrial apparatus.....	1,174	1,164	1,114	1,114	3,249	3,249	3,249	727	727	715	1,293	1,293	1,293	1,293	1,293	13,055	13,055	
363	Radio and TV.....	1,071	1,071	608	1,173	2,445	3,083	2,754	1,068	836	715	1,293	860	821	967	913	13,055	8,973	
364	Communication equipment.....	3,253	3,659	2,964	4,045	9,876	11,105	10,704	1,693	3,431	3,579	3,985	3,238	3,412	3,746	2,918	41,438	38,248	
365	Electronic components.....	2,965	2,314	2,323	2,194	7,307	6,939	7,405	2,336	2,305	2,198	2,236	1,841	2,404	2,207	2,106	28,243	26,845	
37	Transportation equipment.....	16,090	15,429	15,780	18,627	47,299	59,911	57,848	15,722	16,500	20,163	19,284	17,681	17,393	21,197	20,360	225,783	202,676	
371,4	Aircraft, missiles, and spacecraft.....	4,390	3,996	3,432	5,617	11,788	16,839	13,663	5,264	4,392	5,836	6,510	5,260	3,969	5,891	3,857	59,687	63,658	
3731	Shipbuilding and military tank vehicles.....	693	1,188	764	595	2,665	3,966	3,996	657	1,145	1,144	1,229	1,708	812	1,370	2,056	14,383	15,408	
3795	Instruments and related products.....	4,109	4,378	4,233	4,245	12,720	12,822	12,560	4,202	4,336	4,462	4,486	4,306	3,971	4,067	4,120	50,401	46,380	
38	All other durable goods industries.....	7,846	7,506	8,086	8,048	23,552	24,238	23,963	7,016	7,512	8,462	8,569	7,544	8,082	8,673	8,386	98,666	93,314	

¹Preliminary.

²Revised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:
The "durable goods industries--household durables," kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radio and TV, ophthalmic goods, watches, and toys; and personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.
Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portion of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, an ordinance.

Defense products--Based on separate reports on defense work from major defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the AD-17. Shipments in capital government agencies represent shipments of defense-related industries in the capital goods industries.

Table 3. LIST OF INDUSTRIES WITHIN SECTORS AND INDUSTRY GROUPS, 1947-1959, AND INDUSTRY GROUPS

Billions of Dollars																																																
Seasonally Adjusted											Not Seasonally Adjusted																																					
SIC	Industry	Exports					Imports					Exports					Imports																															
		1947-1951					1947-1951					1947-1951					1947-1951																															
		1947	1948	1949	1950	1951	1947	1948	1949	1950	1951	1947	1948	1949	1950	1951	1947	1948	1949	1950	1951																											
Durable Goods Industries																																																
All manufacturing industries.....																						418,413	418,413	418,413	418,413	418,413																						
Manufacturing industries excluding transportation.....																						210,460	210,460	210,460	210,460	210,460																						
Durable goods industries.....																						312,406	312,406	312,406	312,406	312,406																						
Non-durable goods industries.....																						11,143	11,143	11,143	11,143	11,143																						
MARKET CATEGORIES																																																
House, goods, and apparel.....																						4,412	4,412	4,412	4,412	4,412																						
Transportation equipment.....																						169,168	169,168	169,168	169,168	169,168																						
Automotive equipment.....																						174,971	174,971	174,971	174,971	174,971																						
Construction materials, supplies, and intermediate products.....																						11,143	11,143	11,143	11,143	11,143																						
Intermediate products.....																						11,143	11,143	11,143	11,143	11,143																						
SUPPLEMENTARY SERIES																																																
Household durable goods industries.....																						2,157	2,157	2,157	2,157	2,157																						
Capital goods industries.....																						147,469	147,469	147,469	147,469	147,469																						
Non-durable goods industries.....																						78,435	78,435	78,435	78,435	78,435																						
INDUSTRY GROUPS AND INDUSTRIES																																																
Durable goods industries.....																						2,157	2,157	2,157	2,157	2,157																						
Primary metals.....																						27,082	27,082	27,082	27,082	27,082																						
Blast furnaces, steel mills, and other primary.....																						18,117	18,117	18,117	18,117	18,117																						
Nonferrous and other primary.....																						2,938	2,938	2,938	2,938	2,938																						
Fabricated metal products.....																						28,417	28,417	28,417	28,417	28,417																						
Machinery, except electrical.....																						75,440	75,440	75,440	75,440	75,440																						
Engines and turbines.....																						18,474	18,474	18,474	18,474	18,474																						
Construction, mining, and material-handling equipment.....																						11,357	11,357	11,357	11,357	11,357																						
Metalworking machinery.....																						8,265	8,265	8,265	8,265	8,265																						
General industrial machinery.....																						2,092	2,092	2,092	2,092	2,092																						

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURES' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(Billions of dollars)

SIC	Industry group	Seasonally adjusted					Not seasonally adjusted ¹												
		Monthly					Quarterly												
		Dec. 1981 ²	Nov. 1981 ³	Oct. 1981	Sept. 1981	II 1981	I 1981	IV 1980	III 1980	II 1980	Last 4 months								
	INDUSTRY GROUP AND INDUSTRIES--																		
	continued																		
	Durable goods industries--																		
	Electrical machinery.....	51,506	51,072	50,634	51,526	50,124	48,444	-7,225	-2,819	-2,341	50,668	50,628	51,197	46,477	44,506	44,275	44,539		
	distribution equipment and																		
	distribution equipment.....	8,237	8,141	8,055	8,429	8,392	8,361	7,487	7,905	8,057	8,103	8,074	8,059	7,842	7,845	7,985	7,888		
362	Household appliances.....	119	129	130	130	130	130	130	130	130	130	130	130	130	130	130	130		
363	Radio and TV.....	619	611	606	607	607	607	482	482	482	482	482	482	482	482	482	482		
365	Communication equipment.....	26,970	26,958	26,958	26,958	26,958	26,958	26,958	26,958	26,958	26,958	26,958	26,958	26,958	26,958	26,958	26,958		
367	Electronic components.....	15,241	15,084	15,177	15,002	15,207	15,723	17,019	17,135	17,495	17,881	18,913	19,964	20,276	20,914	21,008	21,220		
37	Transportation equipment.....	114,086	115,283	116,657	118,073	115,515	116,198	113,023	114,533	108,440	115,518	116,731	117,223	117,890	114,352	114,156	112,602		
372	Aircraft, missiles, and																		
372.2	Parts.....	91,405	91,187	91,010	93,126	90,505	91,289	86,371	90,486	85,924	91,638	91,412	92,446	91,068	89,171	87,888	88,114		
373	Ships, boats, and military																		
373.1	tank vehicles.....	16,501	16,944	16,972	17,203	16,953	16,478	16,087	15,421	13,490	16,513	17,184	17,157	17,180	16,068	15,487	15,487		
38	Instruments and related																		
38.1	Instruments.....	7,164	7,390	7,059	7,067	7,056	7,012	6,487	6,863	6,486	7,118	7,145	7,058	7,091	6,462	6,486	6,486		
39	All other durable goods																		
39.1	industries.....	4,727	4,842	4,878	4,853	4,955	4,915	4,467	4,030	4,284	4,416	4,448	4,745	4,947	4,021	3,948	4,016	4,016	

¹ Preliminary.

² Revised.

³ Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Outlets for the period and are not adjusted for trading-day or calendar-month variations.

⁴ The supplementary series are regroupings of the separate industry categories as follows:
 Non-durable goods industries--Household furniture, kitchen articles and pottery, cutlery, hand tools, and hand saws; household appliances, radios, and electronic equipment, the non-durable goods industries--Consumer goods, personal goods, and consumer services.
 Capital goods industries--Comparable to the previous producers' capital goods and the defense products of industries categories.

Non-durable goods industries--Comparable to the previous producers' capital goods and the defense products of industries categories.
 Non-durable goods industries--Comparable to the previous producers' capital goods and the defense products of industries categories.
 Non-durable goods industries--Comparable to the previous producers' capital goods and the defense products of industries categories.

The data are available to those published annually in the M-1. Shipments are reported quarterly. Inventory shipments are reported monthly. Shipments are reported quarterly.

[illegible]

Table 6. PERCENT CHANGES AND REVISION FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent change							Revision ²		
	Month-to-month			Average monthly rate of change ¹				Year ago Dec. 1980	Average monthly	
	Nov. 1981- Dec. 1981	Oct. 1981- Nov. 1981	Sept. 1981- Oct. 1981	Fourth quarter 1981	Third quarter 1981	Second quarter 1981	Jan. 1981 through Dec. 1981		Dec. 1980 through Nov. 1981	Dec. 1976-1980
Shipments:										
All manufacturing industries.....	-0.2	-1.3	-2.7	-1.4	-0.6	+1.1	-0.1	0.5	0.2	0.8
Durable goods industries.....	-0.4	-1.1	-4.2	-1.9	-1.0	+1.4	-0.2	0.8	0.4	1.0
Nondurable goods industries.....	0.0	-1.4	-1.1	-0.8	+0.1	+0.8	0.0	0.3	0.3	0.6
Inventories:										
All manufacturing industries.....	-0.8	+0.4	+0.7	+0.1	+0.8	+0.4	+0.6	0.3	1.5	0.3
New orders:										
All manufacturing industries.....	+0.2	+0.6	-5.6	-1.6	-0.5	+0.7	-0.3	0.2	0.3	0.9
Durable goods industries.....	+0.3	+2.8	-9.8	-2.4	-0.8	+0.6	-0.6	0.2	0.6	1.2
Nondurable goods industries.....	+0.2	-1.5	-1.2	-0.8	-0.2	+0.8	0.0	0.1	0.4	0.5
Unfilled orders:										
Durable goods industries.....	-0.4	-0.5	-1.5	-0.8	+0.3	+0.2	0.0	0.2	0.1	0.1

- Represents zero.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Dec. 1981 ^P	Nov. 1981 ^P	Oct. 1981	Sept. 1981	Dec. 1981 ^P	Nov. 1981 ^P	Oct. 1981	Sept. 1981
All manufacturing industries.....	1.71	1.73	1.70	1.64	3.73	3.72	3.74	3.68
Durable goods industries.....	2.29	2.29	2.26	2.15	4.51	4.49	4.49	4.41
Stone, clay, and glass products.....	1.83	1.80	1.80	1.75	0.67	0.67	0.65	0.60
Primary metals.....	2.56	2.38	2.28	2.16	2.71	2.54	2.50	2.46
Fabricated metals.....	2.10	2.18	2.06	1.99	3.27	3.33	3.17	3.14
Machinery, except electrical.....	2.48	2.44	2.50	2.42	4.70	4.57	4.73	4.72
Electrical machinery.....	2.31	2.36	2.39	2.27	4.45	4.47	4.50	4.42
Transportation equipment.....	2.32	2.40	2.34	2.08	10.92	11.25	11.59	10.91
Instruments and related products.....	2.28	2.36	2.29	2.27	1.69	1.76	1.66	1.64
Nondurable goods industries.....	1.14	1.15	1.13	1.11	0.60	0.62	0.64	0.65
Food and kindred products.....	0.97	1.01	0.98	0.97	(X)	(X)	(X)	(X)
Tobacco products.....	3.56	3.44	3.68	3.27	(X)	(X)	(X)	(X)
Textile mill products.....	1.70	1.71	1.64	1.50	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.34	1.35	1.34	1.31	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.33	1.35	1.38	1.31	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.56	0.55	0.53	0.57	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.47	1.59	1.45	1.44	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. ^RRevised. (X) Not applicable.¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

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CURRENT INDUSTRIAL REPORTS

Manufacturers' Shipments, Inventories, and Orders

JANUARY 1982

U.S. Department of Commerce
BUREAU OF THE CENSUS

M3-1(82)-1
For Wire Transmission 2:30 P.M. E.S.T. Wednesday, March 3, 1982

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in January declined \$1.9 billion or 1.2 percent to \$157.6 billion, the Department of Commerce, Bureau of the Census reported today. Since orders peaked last July at \$172.6 billion, new orders have declined each month, except November when they recovered slightly from a large drop in October. Excluding the defense capital goods category, new orders declined 2.0 percent.

Shipments of manufactured goods declined for the seventh consecutive month. The January decrease was \$3.9 billion or 2.4 percent to \$157.2 billion. The book value of manufacturers' inventories declined \$1.1 billion or 0.4 percent following a decrease in December of 1.1 percent. Despite the reduction in the January inventory levels, the inventory to shipments ratio increased in January to 1.75 from 1.72 in December.

The decline in new orders for manufactured goods in January was widespread. Within the durable goods industries, which were down in total \$1.4 billion or 1.7 percent to \$78.4 billion, all major industries except transportation equipment showed decreases. Excluding defense capital goods, new orders for durables were down 3.5 percent. New orders for primary metals were down for the sixth consecutive month, as a decline in steel orders of \$0.3 billion or 6.5 percent to \$4.6 billion was partially offset by increases in nonferrous metals and foundry orders. New orders for nonelectrical machinery were off \$2.2 billion or 12.6 percent while orders for electrical machinery were down \$0.1 billion or 1.1 percent.

New orders for transportation equipment had a large increase in January, going up \$2.0 billion or 12.5 percent to \$18.1 billion. New orders for the aircraft and shipbuilding categories, both of which are heavily influenced by defense orders, together were up \$3.3 billion. New orders in the motor vehicle and parts industry were down \$1.3 billion or 13.1 percent to \$8.8 billion.

Within the capital goods industries, new orders for defense capital goods were up \$1.2 billion or 21 percent to \$7.3 billion following increases in December of 24 percent and in November of 27 percent.

New orders for nondefense capital goods were down \$0.3 billion or 1.3 percent, as a large decline in nonelectrical machinery orders was partially offset by an increase in the aircraft, missiles and parts category.

The decline in shipments of manufactured products in January of \$3.9 billion or 2.4 percent to \$157.2 billion was caused

mostly by decreases in the durable goods components. The largest were in the motor vehicle and parts industry, down \$1.1 billion or 11.1 percent to \$8.9 billion; the aircraft, missiles and parts industry, down \$0.9 billion or 16.6 percent to \$4.5 billion; and the nonelectrical machinery industry, down \$1.0 billion or 5.6 percent to \$16.5 billion. The only significant increase in shipments came from the primary metals category, where an increase of \$0.8 billion or 8.0 percent to \$10.6 billion followed 4 months of declines.

Shipments of nondurable goods were down \$0.7 billion or 0.9 percent to \$79.2 billion. The chemical industries showed the largest dollar decline, down \$0.5 billion or 3.3 percent.

The backlog of orders for manufactured goods in January valued at \$320.3 billion, increased \$0.4 billion, following 3 months of declines. A \$2.8 billion rise in the transportation equipment backlog was offset by declines in nearly all the other major durable goods industry categories. The increase in the transportation equipment backlog was due almost entirely to defense order increases. The backlog for defense capital goods at the end of the month stood at \$83.9 billion, up 3.8 percent from December.

The decline in the book value of manufacturers' inventories in January was distributed across nearly all industries, both durable and nondurable. Durable goods inventories were down \$0.8 billion or 0.4 percent to \$184.4 billion while nondurable goods inventories were down \$0.3 billion or 0.3 percent to \$90.9 billion.

The pattern of change in inventories by stage of fabrication was different between the durable and nondurable goods categories. For the durable goods industries, the value of finished goods inventories declined 1.7 percent, while the value of raw materials and work-in-process inventories showed little change from December. Within the nondurable goods industries all stages of fabrication had small decreases in January.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for February is scheduled for release on March 19, 1982, and the full report is scheduled for release on March 30, 1982.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

Table 1. — *Value added in manufacturing: New orders and deliveries, 1952-1958* (in millions of dollars)

SIC	Industry	New orders				Deliveries				Millions of dollars				New orders and deliveries, μ				Ratio			
		1952-1958				1952-1958				1952-1958				1952-1958				1952-1958			
		1952-1958				1952-1958				1952-1958				1952-1958				1952-1958			
		1952	1953	1954	1955	1952	1953	1954	1955	1952	1953	1954	1955	1952	1953	1954	1955	1952	1953	1954	1955
FOODS																					
13	All food processing industries.....	157,536	156,989	156,989	156,989	157,536	156,989	156,989	156,989	157,536	156,989	156,989	156,989	157,536	156,989	156,989	156,989	157,536	156,989	156,989	156,989
20	Wheat and grain milling industries.....	119,530	119,530	119,530	119,530	119,530	119,530	119,530	119,530	119,530	119,530	119,530	119,530	119,530	119,530	119,530	119,530	119,530	119,530	119,530	119,530
21	Food processing industries except wheat and grain milling.....	81,869	81,869	81,869	81,869	81,869	81,869	81,869	81,869	81,869	81,869	81,869	81,869	81,869	81,869	81,869	81,869	81,869	81,869	81,869	81,869
22	Meat and poultry slaughtering and processing industries.....	78,994	78,994	78,994	78,994	78,994	78,994	78,994	78,994	78,994	78,994	78,994	78,994	78,994	78,994	78,994	78,994	78,994	78,994	78,994	78,994
23	Dairy and food product manufacturing industries.....	67,106	67,106	67,106	67,106	67,106	67,106	67,106	67,106	67,106	67,106	67,106	67,106	67,106	67,106	67,106	67,106	67,106	67,106	67,106	67,106
34	Non-durable goods industries.....	74,209	74,209	74,209	74,209	74,209	74,209	74,209	74,209	74,209	74,209	74,209	74,209	74,209	74,209	74,209	74,209	74,209	74,209	74,209	74,209
35	Transportation and communication equipment manufacturing industries.....	16,736	16,736	16,736	16,736	16,736	16,736	16,736	16,736	16,736	16,736	16,736	16,736	16,736	16,736	16,736	16,736	16,736	16,736	16,736	16,736
36	Industries without unutilized orders.....	67,466	67,466	67,466	67,466	67,466	67,466	67,466	67,466	67,466	67,466	67,466	67,466	67,466	67,466	67,466	67,466	67,466	67,466	67,466	67,466
WHOLESALE RETAIL TRADE																					
51	New goods and apparel.....	11,190	11,190	11,190	11,190	11,190	11,190	11,190	11,190	11,190	11,190	11,190	11,190	11,190	11,190	11,190	11,190	11,190	11,190	11,190	11,190
52	Consumer staples.....	28,464	28,464	28,464	28,464	28,464	28,464	28,464	28,464	28,464	28,464	28,464	28,464	28,464	28,464	28,464	28,464	28,464	28,464	28,464	28,464
53	Equipment and defense products, except automotive.....	28,234	28,234	28,234	28,234	28,234	28,234	28,234	28,234	28,234	28,234	28,234	28,234	28,234	28,234	28,234	28,234	28,234	28,234	28,234	28,234
54	Automotive equipment.....	11,601	11,601	11,601	11,601	11,601	11,601	11,601	11,601	11,601	11,601	11,601	11,601	11,601	11,601	11,601	11,601	11,601	11,601	11,601	11,601
55	Consumer goods, except automobiles and intermediate products, and other accessories, supplies, and intermediate products.....	10,621	10,621	10,621	10,621	10,621	10,621	10,621	10,621	10,621	10,621	10,621	10,621	10,621	10,621	10,621	10,621	10,621	10,621	10,621	10,621
56	Intermediate products.....	68,641	68,641	68,641	68,641	68,641	68,641	68,641	68,641	68,641	68,641	68,641	68,641	68,641	68,641	68,641	68,641	68,641	68,641	68,641	68,641
SUPPLEMENTARY SERVICES																					
73	Household durable goods industries.....	5,071	5,071	5,071	5,071	5,071	5,071	5,071	5,071	5,071	5,071	5,071	5,071	5,071	5,071	5,071	5,071	5,071	5,071	5,071	5,071
74	Capital goods industries.....	29,599	29,599	29,599	29,599	29,599	29,599	29,599	29,599	29,599	29,599	29,599	29,599	29,599	29,599	29,599	29,599	29,599	29,599	29,599	29,599
75	Nondefense.....	22,228	22,228	22,228	22,228	22,228	22,228	22,228	22,228	22,228	22,228	22,228	22,228	22,228	22,228	22,228	22,228	22,228	22,228	22,228	22,228
76	Defense.....	7,261	7,261	7,261	7,261	7,261	7,261	7,261	7,261	7,261	7,261	7,261	7,261	7,261	7,261	7,261	7,261	7,261	7,261	7,261	7,261
INDUSTRY GROUPS AND INDUSTRIES																					
Durable goods industries																					
12	Stone, clay, and glass.....	3,668	3,668	3,668	3,668	3,668	3,668	3,668	3,668	3,668	3,668	3,668	3,668	3,668	3,668	3,668	3,668	3,668	3,668	3,668	3,668
13	Primary metals.....	4,708	4,708	4,708	4,708	4,708	4,708	4,708	4,708	4,708	4,708	4,708	4,708	4,708	4,708	4,708	4,708	4,708	4,708	4,708	4,708
20-22	Food processing industries.....	4,638	4,638	4,638	4,638	4,638	4,638	4,638	4,638	4,638	4,638	4,638	4,638	4,638	4,638	4,638	4,638	4,638	4,638	4,638	4,638
23-25	Textile, apparel, and leather industries.....	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785	3,785
34	Fabricated metal products.....	8,908	8,908	8,908	8,908	8,908	8,908	8,908	8,908	8,908	8,908	8,908	8,908	8,908	8,908	8,908	8,908	8,908	8,908	8,908	8,908
35	Machinery, except electrical.....	15,385	15,385	15,385	15,385	15,385	15,385	15,385	15,385	15,385	15,385	15,385	15,385	15,385	15,385	15,385	15,385	15,385	15,385	15,385	15,385
36	Engines and turbines.....	1,146	1,146	1,146	1,146	1,146	1,146	1,146	1,146	1,146	1,146	1,146	1,146	1,146	1,146	1,146	1,146	1,146	1,146	1,146	1,146
37	Transportation and communication equipment.....	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158	3,158
38	Other machinery, and electrical machinery.....	881	881	881	881	881	881	881	881	881	881	881	881	881	881	881	881	881	881	881	881
39	General industrial machinery.....	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY APPROPRIATE CATEGORY

SIC	Industry	Seasonally adjusted										Not seasonally adjusted ¹										
		Quarterly					Monthly					Monthly					Monthly					
		Quarterly					Monthly					Monthly					Monthly					
		Jan. 1982 ²	Dec. 1981	Nov. 1981	Oct. 1981	IV 1981	III 1981	II 1981	Jan. 1982	Dec. 1981	Nov. 1981	Oct. 1981	IV 1981	III 1981	II 1981	Jan. 1982	Dec. 1981	Nov. 1981	Oct. 1981	IV 1981	III 1981	II 1981
INDUSTRY GROUPS AND INDUSTRIES--																						
(continued)																						
Durable goods industries--																						
26	Electrical machinery.....	11,522	11,950	11,887	10,170	33,803	36,462	36,464	11,410	11,120	11,367	11,889	11,267	11,273	11,273	11,273	11,273	11,273	11,273	11,273	11,273	11,273
361,2	Electrical transmission and distribution equipment.....																					
363	Household appliances.....	1,800	1,917	1,784	1,484	5,490	5,937	5,773	1,768	1,427	1,889	1,889	1,848	1,848	1,848	1,848	1,848	1,848	1,848	1,848	1,848	1,848
365	Radio and TV.....	966	963	1,072	746	3,424	3,294	3,477	869	891	964	964	964	964	964	964	964	964	964	964	964	964
367	Transportation equipment.....	1,055	884	760	606	2,298	2,298	2,298	836	477	637	637	712	712	712	712	712	712	712	712	712	712
37	Transportation equipment.....	5,389	3,347	3,555	2,984	10,073	11,105	11,704	3,423	3,423	3,423	3,423	3,423	3,423	3,423	3,423	3,423	3,423	3,423	3,423	3,423	3,423
37,2	Aircraft, missiles, and parts.....	2,274	2,620	2,519	2,325	7,762	9,494	9,494	2,772	2,244	2,772	2,772	2,772	2,772	2,772	2,772	2,772	2,772	2,772	2,772	2,772	2,772
37,2,2	Ships, boats, and other watercraft.....	18,076	16,071	15,428	15,780	57,690	57,411	57,690	17,880	17,880	17,880	17,880	17,880	17,880	17,880	17,880	17,880	17,880	17,880	17,880	17,880	17,880
37,2,2,2	Ships, boats, and other watercraft.....	6,710	6,957	3,906	3,242	12,015	16,834	13,663	6,995	5,543	4,292	5,876	5,399	5,399	5,399	5,399	5,399	5,399	5,399	5,399	5,399	5,399
37,2,2,2,2	Ships, boats, and other watercraft.....	1,835	686	1,186	784	2,538	3,996	3,499	1,676	371	1,485	1,485	1,485	1,485	1,485	1,485	1,485	1,485	1,485	1,485	1,485	1,485
38	Transportation and related industries.....	3,407	4,111	4,176	4,233	12,722	12,832	12,832	4,538	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234	4,234
24	All other durable goods industries.....	7,682	7,861	7,586	8,006	23,513	24,258	24,258	6,592	6,476	7,312	7,312	7,312	7,312	7,312	7,312	7,312	7,312	7,312	7,312	7,312	7,312
25	Non-durable goods industries.....																					
26	Textile millinery.....																					
27	Food and kindred products.....																					
28	Chemical and allied products.....																					
29	Stone, clay, and glass products.....																					
30	Textile millinery.....																					
31	Textile millinery.....																					
32	Textile millinery.....																					
33	Textile millinery.....																					
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45	Textile millinery.....																					
46	Textile millinery.....																					
47	Textile millinery.....																					
48	Textile millinery.....																					
49	Textile millinery.....																					

Footnote: 1. Shipments.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Monthly orders and inventories are as of the end of the period and are not adjusted for trading-day variations.

The supplementary series are percentages of the separate industry categories as follows:

Household durable goods: furniture-household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radios and TV, phonographs, cameras, and other electronic equipment; personal goods.

Capital goods industries: comparable to the previous producers' capital goods and the defense products (all series) categories.

Non-durable goods industries: except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radios and TV, and electronic equipment), and other non-durable goods (excluding transportation and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and other non-durable goods).

The data are comparable to those published annually in the MA 17, shipments of manufactured products, by the Department of Commerce.

Table 1. The structure of the export goods of the USSR in 1975, by type of goods, by country of origin

No.	Industry	Exports					Imports					Exports					Imports				
		USSR's exports					USSR's imports					USSR's exports					USSR's imports				
		1975	1974	1973	1972	1971	1975	1974	1973	1972	1971	1975	1974	1973	1972	1971	1975	1974	1973	1972	1971
EXPORTS																					
1	All manufacturing industries excluding agriculture	10,000	9,124	8,385	7,625	6,925	11,000	10,000	9,124	8,385	7,625	11,000	10,000	9,124	8,385	7,625	11,000	10,000	9,124	8,385	7,625
2	Food products	3,000	2,800	2,600	2,400	2,200	3,500	3,200	3,000	2,800	2,600	3,500	3,200	3,000	2,800	2,600	3,500	3,200	3,000	2,800	2,600
3	Textile goods	1,500	1,400	1,300	1,200	1,100	1,600	1,500	1,400	1,300	1,200	1,600	1,500	1,400	1,300	1,200	1,600	1,500	1,400	1,300	1,200
4	Chemical products	1,000	950	900	850	800	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900
5	Metals and metal products	1,500	1,400	1,300	1,200	1,100	1,600	1,500	1,400	1,300	1,200	1,600	1,500	1,400	1,300	1,200	1,600	1,500	1,400	1,300	1,200
6	Non-metallic mineral products	1,000	950	900	850	800	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900
7	Capital goods	1,500	1,400	1,300	1,200	1,100	1,600	1,500	1,400	1,300	1,200	1,600	1,500	1,400	1,300	1,200	1,600	1,500	1,400	1,300	1,200
8	Consumer goods	1,000	950	900	850	800	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900
9	Transportation equipment	1,000	950	900	850	800	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900
10	Other goods	1,000	950	900	850	800	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900
IMPORTS																					
11	Food products	3,000	2,800	2,600	2,400	2,200	3,500	3,200	3,000	2,800	2,600	3,500	3,200	3,000	2,800	2,600	3,500	3,200	3,000	2,800	2,600
12	Textile goods	1,500	1,400	1,300	1,200	1,100	1,600	1,500	1,400	1,300	1,200	1,600	1,500	1,400	1,300	1,200	1,600	1,500	1,400	1,300	1,200
13	Chemical products	1,000	950	900	850	800	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900
14	Metals and metal products	1,500	1,400	1,300	1,200	1,100	1,600	1,500	1,400	1,300	1,200	1,600	1,500	1,400	1,300	1,200	1,600	1,500	1,400	1,300	1,200
15	Non-metallic mineral products	1,000	950	900	850	800	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900
16	Capital goods	1,500	1,400	1,300	1,200	1,100	1,600	1,500	1,400	1,300	1,200	1,600	1,500	1,400	1,300	1,200	1,600	1,500	1,400	1,300	1,200
17	Consumer goods	1,000	950	900	850	800	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900
18	Transportation equipment	1,000	950	900	850	800	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900
19	Other goods	1,000	950	900	850	800	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900	1,100	1,050	1,000	950	900

See footnote at end of table.

See footnotes at end of table.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SECTORS--Continued

Preliminary. Revised.

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent changes							Revisions ²		
	Month-to-month			Average monthly rates of change ¹				Year ago Jan. 1981	Average monthly	
	Dec. 1981- Jan. 1982	Nov. 1981- Dec. 1982	Oct. 1981- Nov. 1981	Fourth quarter 1981	Third quarter 1981	Second quarter 1981	Jan. 1981- Jan. 1982		Jan.- Dec. 1981	Jan. 1977- 1981
Shipments:										
All manufacturing industries.....	-2.4	-0.6	-1.3	-1.5	-0.6	+1.1	-0.3	0.0	0.2	0.3
Durable goods industries.....	-4.0	-0.6	-1.1	-2.0	-1.0	+1.4	-0.6	0.1	0.4	0.6
Nondurable goods industries.....	-0.9	-0.5	-1.4	-1.0	+0.1	+0.8	-0.1	0.2	0.3	0.4
Inventories:										
All manufacturing industries.....	-0.4	-1.1	+0.4	-0.0	+0.8	+0.4	+0.5	0.3	0.1	0.1
New orders:										
All manufacturing industries.....	-1.2	-0.3	+0.6	-1.8	-0.5	+0.7	-0.5	0.3	0.4	0.6
Durable goods industries.....	-1.7	-0.2	+2.8	-2.6	-0.8	+0.6	-0.8	0.3	0.6	0.7
Nondurable goods industries.....	-0.6	-0.3	-1.5	-1.0	-0.2	+0.8	-0.1	0.3	0.4	0.5
Unfilled orders:										
Durable goods industries.....	+0.2	-0.4	-0.5	-0.8	+0.3	+0.2	0.0	0.1	0.1	0.1

- Represents zero.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advances to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Jan. 1982	Dec. 1981	Nov. 1981	Oct. 1981	Jan. 1982	Dec. 1981	Nov. 1981	Oct. 1981
All manufacturing industries.....	1.75	1.72	1.73	1.70	3.84	3.74	3.72	3.74
Durable goods industries.....	2.37	2.28	2.29	2.26	4.65	4.51	4.49	4.49
Stone, clay, and glass products.....	1.80	1.80	1.80	1.80	0.64	0.66	0.67	0.65
Primary metals.....	2.48	2.57	2.38	2.28	2.39	2.71	2.54	2.50
Fabricated metals.....	2.24	2.15	2.18	2.06	33.44	1.36	3.33	3.17
Machinery, except electrical.....	2.57	2.44	2.44	2.50	4.72	4.60	4.57	4.73
Electrical machinery.....	2.36	2.36	2.36	2.39	4.67	4.62	4.47	4.50
Transportation equipment.....	2.59	2.28	2.40	2.34	12.35	10.61	11.25	11.59
Instruments and related products.....	2.46	2.30	2.36	2.29	1.83	1.69	1.76	1.66
Nondurable goods industries.....	1.15	1.14	1.15	1.13	0.61	0.60	0.62	0.64
Food and kindred products.....	0.99	0.99	1.01	0.98	(NA)	(NA)	(NA)	(NA)
Tobacco products.....	3.07	1.56	1.44	1.08	(NA)	(NA)	(NA)	(NA)
Textile mill products.....	1.64	1.73	1.71	1.64	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.32	1.35	1.35	1.34	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.33	1.29	1.45	1.48	(NA)	(NA)	(NA)	(NA)
Petroleum and coal products.....	0.57	0.56	0.55	0.53	(NA)	(NA)	(NA)	(NA)
Rubber and plastics products, n.e.c.....	1.44	1.49	1.59	1.45	(NA)	(NA)	(NA)	(NA)

(NA) Not available. ^PPreliminary. ^RRevised. (X) Not applicable.¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey provides broad-based monthly statistical data on economic conditions in the domestic manufacturing sector. It is designed to measure current industrial activity and to provide an indication of future trends. The data are used extensively by the executive branch of the Government in developing economic, fiscal, and monetary policy; by the Bureau of Economic Analysis (BEA) as components of the gross national product estimates; and by trade associations, corporate economists, and other members of the business community as an analytical tool in their assessment of the current and future economic condition of the country.

The M3 shipments and inventory data are comparable to the totals published in the Annual Survey of Manufactures (ASM). The ASM is a sample survey of approximately 70,000 manufacturing establishments drawn from a 5-year census of manufactures universe of about 350,000 manufacturing establishments. In the ASM, each manufacturing location reports data on value of shipments, beginning and end-of-year inventories, as well as various other economic variables.

The monthly M3 estimates through 1980 are based on information obtained from approximately 4,500 reporting units and include most manufacturing companies with 1,000 or more employees. In addition, selected smaller companies are included to strengthen the sample coverage in individual industry categories. For firms which operate in a single M3 industry category, the reporting unit typically comprises all operations of the company. At the request of the Census Bureau, most large, diversified companies file separate reports for divisions which operate in different industrial areas.

Each company or reporting unit of a company in the survey is classified into 1 of 79 industry categories for which separate estimates are made based on the major activity of the reporting unit. Some reporting units include industry activities outside the M3 category in which they are classified. The survey methodology assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category.

The M3 series is periodically benchmarked to the Census of Manufactures and the ASM for shipments and inventories. The most recent benchmark included data for 1977 and 1978. Since benchmark data for unfilled orders are not available, levels are based upon the ratio of unfilled orders to shipments of reporting companies. In the 1977-1978 benchmark report, unfilled orders levels were revalued based on unfilled orders to shipments ratios of reporting companies in the monthly M3 survey; the MA-300, a one-time annual supplemental survey of multi-establishment companies; and the ASM for single-establishment companies.

MONTHLY ESTIMATING PROCEDURE

The monthly estimates of shipments, unfilled orders, and total inventories are derived for each industry category by

multiplying the industry estimate for the previous month by the percentage change from the previous month for companies reporting in the current month.

Though collected as a separate item, new orders are not calculated according to the standard ratio-estimate procedure. The reason for this is that not all companies report new orders and some that do report this item limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. New orders are, therefore, computed by adjusting the current month's shipments by the change in the backlog of unfilled orders. (New orders equal current month shipments plus current month unfilled orders minus prior month unfilled orders.) Thus, the estimate of new orders includes orders that are received and filled in the same month as well as new orders that have not yet been filled. Also included are the effects of cancellations and modifications on previously reported orders.

SEASONAL ADJUSTMENT

The monthly data on shipments, inventories, and unfilled orders are adjusted for seasonality at the most detailed level tabulated in the survey, using the X-11 variant of the Census Bureau's seasonal adjustment program. Data from January 1958 through December 1980 are included in the calculations of the factors used in this publication.

Seasonally adjusted industry aggregates are derived by adding seasonally adjusted components rather than by direct seasonal adjustment of the aggregates. New orders data are not independently seasonally adjusted but are derived at the most detailed levels from the seasonally adjusted shipments and the change in the seasonally adjusted unfilled orders and then similarly aggregated.

EXPLANATION OF TERMS

Value of Shipments—The shipments estimates published in the monthly survey are equivalent to value of shipments as reported in the ASM which are net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments is the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the shipbuilding industry, the value of shipments in a given time period varies considerably from the value of work done because of the long lead time between the input of the materials and labor and the delivery of the completed ship. For this industry and for aircraft and missile producers working under cost-plus contracts, the value of work done during the year is requested rather than the value of shipments.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and M3 industry

category levels since the products of some four-digit SIC industries are used as materials by other industries within the same industry aggregate. The significance of the duplication within the specific M3 industry categories varies depending on their four-digit industry composition. It is most pronounced in a few highly integrated industry areas, such as primary metals and motor vehicles and parts.

For multiunit companies, the M3 reports received each month typically are not plant reports but are company or divisional level reports that encompass groups of plants. The actual sales reported are usually net sales and receipts from customers and exclude the duplication of interplant transfers. The reported sales are used to calculate month-to-month changes which bring forward the plant-based shipments for the industry category as estimated in the ASM.

Inventories—In the monthly survey and in the ASM, respondents are asked to report their inventories at book values. Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the value of aggregate inventories for all plants in an industry is not precise.

There are also some inconsistencies between the M3 company or divisional reported inventory levels as compared with the ASM establishment reported levels. The change in the value of inventories, month-to-month as well as year-to-year, is considered to have greater significance and reliability.

Inventory data are requested from respondents by stage of fabrication, i.e., finished goods, work in process, and raw materials and supplies. However, the quality of these data is limited due to lower response rates and the inclusion of the same type of inventory under different stages of fabrication in the aggregate statistics.

New Orders Received and Unfilled Orders—Orders as reported in the monthly survey are net of cancellations received during the month on orders previously reported. They include orders received and filled during the month as well as orders received for future delivery. They also include the net sales value of contract changes which increase or decrease the sales value of the unfilled orders to which they relate. Orders are defined to include only those supported by binding legal documents such as signed contracts, letters of award, or letters of intent, although in some industries this definition may not be strictly applicable. In the case of letters of intent, the full amount of the sales value is included if the parties are in substantial agreement on the amount; otherwise, only the funds specifically authorized to be expended are included.

Unfilled orders include orders as defined above that have not been reflected as shipments. Generally, unfilled orders at the end of the reporting period are equal to unfilled orders at the beginning of the period plus net new orders received less net shipments.

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3. 158:

CURRENT INDUSTRIAL REPORTS

M3-1(82)-2

Manufacturers' Shipments, Inventories, and Orders

FEBRUARY 1982

M3-1(82).2

For Wire Transmission 400 P.M. E.S.T. Tuesday, March 30, 1982

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in February increased \$1.4 billion or 0.9 percent to \$158.6 billion the Department of Commerce, Bureau of the Census reported today. This is the first increase in orders since a 0.6 percent increase in November and the second since last July. The February increase in new orders was caused mostly by a \$1.0 billion increase in orders for defense capital goods. Excluding the defense capital goods category, new orders were up \$0.4 billion or 0.3 percent.

Shipments of manufactured goods increased in February \$2.7 billion or 1.7 percent to \$159.7 billion. This is the first increase in shipments since last June when they were valued 7.4 percent higher at \$171.5 billion.

The February increase in new orders was concentrated in the durable goods industries. Orders for transportation equipment were up \$1.1 billion or 6.0 percent to \$18.9 billion. Nearly three-fourths of that increase was attributed to the motor vehicle and parts industry, where for the automotive assembly portion new orders equal shipments for the month. New orders for fabricated metal products were up \$0.6 billion or 6.7 percent to \$9.5 billion.

The largest decrease in new orders was in the primary metals industry where orders have been falling since last July. February orders were down \$0.6 billion or 6.2 percent to \$8.6 billion. Most of the February decline was caused by the steel industry which fell \$0.5 billion or 10.7 percent to \$3.9 billion.

Within the capital goods categories, new orders for nondefense capital goods in February declined \$0.5 billion or 2.1 percent to \$21.5 billion, while orders for defense capital goods increased \$1.0 billion or 13.7 percent to \$8.3 billion. New orders for household durables declined \$0.1 billion or 2.3 percent to \$4.8 billion.

The increases in manufacturers shipments in February were widespread. Within the durable goods sector the largest increases occurred in the transportation equipment and nonelectrical machinery categories. Shipments by the automotive industry were up \$1.0 billion or 10.7 percent to \$10.0 billion, but substantially below the peak of \$13.4 billion reached last July.

Increases in shipments of farm machinery, construction equipment, and office and store machines contributed to the \$0.9 billion or 5.7 percent increase in nonelectrical machinery shipments.

Within the nondurable goods sector shipments increases were reported in all industries except petroleum products. The increase in nondurable goods shipments of \$0.6 billion or 0.8 percent to \$79.7 billion was minimized due to a \$1.0 billion or 6.4 percent decline in the petroleum products industry. Excluding that industry, nondurable goods shipments were up 2.5 percent for the month.

The unfilled orders level of manufacturers declined in February \$1.1 billion or 0.3 percent to \$319.0 billion. For the last several months the backlog data have been heavily influenced by increases in orders for defense capital goods. Excluding the defense area, the unfilled orders levels of manufacturers have been declining since July at an average rate of 1.2 percent per month. The July level was \$252.3 billion.

The book value of manufacturers inventories in February increased slightly, following 2 months of declines. At the end of February, inventories were valued at \$276.6 billion, up \$0.7 billion or 0.2 percent from January. The inventory level of nondurable goods manufacturers increased \$0.5 billion or 0.5 percent to \$91.6 billion, mostly due to an increase in petroleum inventories of \$0.3 billion. Excluding the petroleum products industry, inventories of nondurable manufacturers also showed little change from January.

The inventory to shipments ratio for February dropped to 1.73 from 1.76 last month. Prior to this, the ratio had shown little change since October.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for March is scheduled for release on April 21, 1982, and the full report is scheduled for release on April 30, 1982.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. SALES OF MANUFACTURES: SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(millions of dollars)

SIC	Industry	Seasonally adjusted					Quarterly					Yearly					Not seasonally adjusted					Annual	
		Monthly					Quarterly					Yearly					Yearly					Annual	
		Jan. 1962	Feb. 1962	Mar. 1962	Apr. 1962	May 1962	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	
TOTALS																							
33	All manufacturing industries.....	159,672	126,476	161,081	161,979	427,148	398,421	398,121	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	
332	Manufacturing industries excluding transportation.....	140,117	143,634	163,634	160,176	435,711	411,269	411,082	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	
331	Manufacturing industries with unfilled orders.....	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	
333-9	Durable goods industries.....	79,454	77,675	81,166	81,621	253,379	261,561	261,561	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	
334	Durable goods with unfilled orders.....	67,881	66,441	69,111	69,111	217,622	217,622	217,622	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	
335	Nondurable goods industries.....	73,778	79,111	79,911	80,168	224,155	224,155	224,155	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	
336	Nondurable goods with unfilled orders.....	16,870	16,870	16,870	16,870	16,870	16,870	16,870	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	86,794	
MARKET CATEGORIES																							
332	Home goods and apparel.....	11,765	11,179	11,068	11,290	36,882	37,009	37,009	11,765	11,765	11,765	11,765	11,765	11,765	11,765	11,765	11,765	11,765	11,765	11,765	11,765	11,765	
333	Consumer staples.....	39,756	28,656	28,111	28,536	86,711	86,711	86,711	39,756	39,756	39,756	39,756	39,756	39,756	39,756	39,756	39,756	39,756	39,756	39,756	39,756	39,756	
334	Equipment and defense products, except automotive.....	15,849	14,209	14,209	14,209	46,622	46,622	46,622	15,849	15,849	15,849	15,849	15,849	15,849	15,849	15,849	15,849	15,849	15,849	15,849	15,849	15,849	
335	Automotive equipment.....	11,649	10,660	10,660	10,660	33,333	33,333	33,333	11,649	11,649	11,649	11,649	11,649	11,649	11,649	11,649	11,649	11,649	11,649	11,649	11,649	11,649	
336	Capital goods, except machinery, and intermediate products.....	11,254	11,111	11,111	11,066	33,333	33,333	33,333	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	
337	Other materials, supplies, and intermediate products.....	69,389	71,293	71,117	72,881	217,622	217,622	217,622	69,389	69,389	69,389	69,389	69,389	69,389	69,389	69,389	69,389	69,389	69,389	69,389	69,389	69,389	
SUPPLEMENTARY SERIES ²																							
332	Household durable goods industries.....	4,976	4,880	4,911	4,911	14,728	14,728	14,728	4,976	4,976	4,976	4,976	4,976	4,976	4,976	4,976	4,976	4,976	4,976	4,976	4,976	4,976	
333	Capital goods industries.....	28,556	27,017	27,017	28,435	86,181	86,181	86,181	28,556	28,556	28,556	28,556	28,556	28,556	28,556	28,556	28,556	28,556	28,556	28,556	28,556	28,556	
334	Nondefense.....	24,911	24,911	24,911	24,911	74,728	74,728	74,728	24,911	24,911	24,911	24,911	24,911	24,911	24,911	24,911	24,911	24,911	24,911	24,911	24,911	24,911	
335	Defense.....	3,645	2,106	2,106	3,524	11,463	11,463	11,463	3,645	3,645	3,645	3,645	3,645	3,645	3,645	3,645	3,645	3,645	3,645	3,645	3,645	3,645	
INDUSTRY GROUPS AND INDUSTRIES																							
332	Durable goods industries	3,831	3,877	3,822	3,860	11,527	11,527	11,527	12,680	12,680	12,680	12,680	12,680	12,680	12,680	12,680	12,680	12,680	12,680	12,680	12,680	12,680	
333	Stones, clay, and glass.....	481	595	481	444	1,467	1,527	1,527	1,467	1,467	1,467	1,467	1,467	1,467	1,467	1,467	1,467	1,467	1,467	1,467	1,467	1,467	
334	Glass containers.....	9,808	9,808	9,808	9,808	31,015	31,015	31,015	9,808	9,808	9,808	9,808	9,808	9,808	9,808	9,808	9,808	9,808	9,808	9,808	9,808	9,808	
335	Primary metals.....	4,963	5,007	5,164	5,164	16,172	16,172	16,172	4,963	4,963	4,963	4,963	4,963	4,963	4,963	4,963	4,963	4,963	4,963	4,963	4,963	4,963	
336	Blast furnaces, steel mills.....	1,920	1,920	1,920	1,920	6,188	6,188	6,188	1,920	1,920	1,920	1,920	1,920	1,920	1,920	1,920	1,920	1,920	1,920	1,920	1,920	1,920	
337	Nonferrous and other primary products.....	9,496	9,186	9,440	9,484	31,015	31,015	31,015	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	
34	Purified metal products.....	864	864	864	864	2,881	2,881	2,881	864	864	864	864	864	864	864	864	864	864	864	864	864	864	
341	Metal cans, barrels, and drums.....	17,476	16,359	16,359	17,476	51,626	51,626	51,626	17,476	17,476	17,476	17,476	17,476	17,476	17,476	17,476	17,476	17,476	17,476	17,476	17,476	17,476	
35	Machinery, except electrical.....	1,017	1,017	1,017	1,017	3,351	3,351	3,351	1,017	1,017	1,017	1,017	1,017	1,017	1,017	1,017	1,017	1,017	1,017	1,017	1,017	1,017	
351	Engines and turbines.....	1,017	1,017	1,017	1,017	3,351	3,351	3,351	1,017	1,017	1,017	1,017	1,017	1,017	1,017	1,017	1,017	1,017	1,017	1,017	1,017	1,017	
352	Construction, mining, and material-handling equipment.....	3,426	3,151	3,605	3,588	10,576	10,576	10,576	3,426	3,426	3,426	3,426	3,426	3,426	3,426	3,426	3,426	3,426	3,426	3,426	3,426	3,426	
353	Material-handling machinery.....	961	1,007	1,007	1,011	2,763	2,763	2,763	961	961	961	961	961	961	961	961	961	961	961	961	961	961	
354	General industrial machinery.....	1,447	1,404	1,485	1,485	4,439	4,439	4,439	1,447	1,447	1,447	1,447	1,447	1,447	1,447	1,447	1,447	1,447	1,447	1,447	1,447	1,447	

See footnotes at end of table.

(Millions of dollars)

Industry	Domestically produced				Imported				Not seasonally adjusted			
	Domestically				Imported				Domestically			
	1959	1960	1961	1962	1959	1960	1961	1962	1959	1960	1961	1962
TOTALS												
All manufacturing industries.....	1,873,993	1,772,000	1,874,000	1,874,000	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111
Manufacturing industries.....	1,873,993	1,772,000	1,874,000	1,874,000	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111
Including transportation.....	1,873,993	1,772,000	1,874,000	1,874,000	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111	1,111,111
Including transportation with unfilled orders.....	84,712	84,712	84,712	84,712	84,712	84,712	84,712	84,712	84,712	84,712	84,712	84,712
Durable goods industries.....	75,416	75,416	75,416	75,416	75,416	75,416	75,416	75,416	75,416	75,416	75,416	75,416
Durable goods with unfilled orders.....	67,205	67,205	67,205	67,205	67,205	67,205	67,205	67,205	67,205	67,205	67,205	67,205
Nondurable goods industries.....	754,175	754,175	754,175	754,175	754,175	754,175	754,175	754,175	754,175	754,175	754,175	754,175
In last 12 months unfilled orders.....	16,417	16,417	16,417	16,417	16,417	16,417	16,417	16,417	16,417	16,417	16,417	16,417
Industries without unfilled orders.....	62,738	62,738	62,738	62,738	62,738	62,738	62,738	62,738	62,738	62,738	62,738	62,738
MARKET EXTRACTIBLES												
Home goods and apparel.....	11,360	11,360	11,360	11,360	11,360	11,360	11,360	11,360	11,360	11,360	11,360	11,360
Home furnishings.....	25,796	25,796	25,796	25,796	25,796	25,796	25,796	25,796	25,796	25,796	25,796	25,796
Home appliances.....	25,796	25,796	25,796	25,796	25,796	25,796	25,796	25,796	25,796	25,796	25,796	25,796
Automotive equipment.....	27,659	27,659	27,659	27,659	27,659	27,659	27,659	27,659	27,659	27,659	27,659	27,659
Construction materials, supplies, and intermediate products.....	10,825	10,825	10,825	10,825	10,825	10,825	10,825	10,825	10,825	10,825	10,825	10,825
Intermediate products.....	67,568	67,568	67,568	67,568	67,568	67,568	67,568	67,568	67,568	67,568	67,568	67,568
SUPPLEMENTARY SECTORS												
Household durable goods industries.....	6,789	6,789	6,789	6,789	6,789	6,789	6,789	6,789	6,789	6,789	6,789	6,789
Capital goods industries.....	21,311	21,311	21,311	21,311	21,311	21,311	21,311	21,311	21,311	21,311	21,311	21,311
Nonferrous.....	5,310	5,310	5,310	5,310	5,310	5,310	5,310	5,310	5,310	5,310	5,310	5,310
Defense.....	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183	1,183
INDUSTRY GOODS AND INDUSTRIES												
Durable goods industries.....	1,785	1,785	1,785	1,785	1,785	1,785	1,785	1,785	1,785	1,785	1,785	1,785
Stone, clay, and glass.....	6,789	6,789	6,789	6,789	6,789	6,789	6,789	6,789	6,789	6,789	6,789	6,789
Primary articles.....	3,944	3,944	3,944	3,944	3,944	3,944	3,944	3,944	3,944	3,944	3,944	3,944
Chemical products.....	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875
Including primary metal products.....	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875
Including electrical machinery, except electrical.....	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875
Including machinery and turbines.....	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875	1,875
Construction, maintenance, and repair.....	2,822	2,822	2,822	2,822	2,822	2,822	2,822	2,822	2,822	2,822	2,822	2,822
General industrial machinery.....	1,158	1,158	1,158	1,158	1,158	1,158	1,158	1,158	1,158	1,158	1,158	1,158

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--continued

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES—(continued)
(billions of dollars)

SIC	Industry group	Seasonally adjusted					Not seasonally adjusted ¹									
		Monthly			Quarterly		Monthly									
							Last 4 months					Last 4 months a year ago				
		Feb. 1982 ²	Jan. 1982 ²	Dec. 1981	Nov. 1981	III 1981	II 1981	I 1981	IV 1980	III 1980	Feb. 1982 ³	Jan. 1982 ³	Nov. 1981	Dec. 1981	Nov. 1980	
	INDUSTRY GROUP AND INDUSTRIES--															
	(continued)															
	Durable goods industries--															
36	Electrical machinery.....	52,056	52,002	51,563	51,072	51,326	50,124	-3,494	-7,255	-3,819	52,505	51,882	50,741	48,450	47,706	46,477
361,2	Electrical transmission and distribution equipment and industrial apparatus.....	8,076	8,220	8,172	8,161	8,459	8,392	8,361	7,967	7,935	8,068	8,128	8,040	8,124	8,157	7,855
363	Radio and TV.....	299	341	335	339	357	370	375	411	422	317	327	326	341	337	334
365	Communication equipment.....	418	482	468	431	697	376	482	346	422	399	390	418	404	498	524
366	Communication equipment.....	29,771	29,537	29,180	28,958	28,823	27,842	26,345	25,427	23,863	30,302	29,825	28,995	28,813	29,107	27,280
367	Electronic components.....	12,341	12,271	12,286	12,084	12,062	12,207	11,733	12,019	12,135	12,317	12,087	11,945	11,903	12,046	12,541
37	Transportation equipment.....	118,950	116,546	115,927	115,283	118,073	115,515	116,198	113,043	114,553	120,019	119,012	115,384	116,354	116,265	114,342
372,2	Aircraft, missiles, and spacecraft.....	95,200	92,689	90,635	91,187	93,126	90,506	91,249	88,171	90,466	96,280	95,031	91,877	92,012	91,076	89,068
371	Shipbuilding and military tanks, vehicles.....	16,932	16,847	16,187	16,944	17,203	16,953	16,478	16,067	15,421	16,767	16,805	16,398	17,129	16,310	16,068
37-45	Instrument and related products.....	7,378	7,132	7,160	7,290	7,067	7,096	7,017	6,467	6,863	7,298	7,098	7,112	7,145	6,470	6,095
38	Nonmetallic mineral products.....	4,782	4,783	4,646	4,642	4,852	4,855	4,915	4,267	4,050	4,567	4,514	4,337	4,485	4,224	4,021
39	Chemical and allied products.....															
39	Chemical and allied products.....															
39	Chemical and allied products.....															

¹ Preliminary.

² Revised.

³ Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Shipments and new orders are the totals for the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are groupings of the separate industry categories as follows:
Household durable goods industries--household furniture, kitchen articles and pottery, cutlery, handtools, and hardware, household appliances, radio and TV, orthodontic goods, watches, and clocks and accessories.

Capital goods industries--comparable to the previous producers' capital goods and the defense products (old series) categories.
Nondefense products--machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--based on separate reports on defense work filled by large defense contractors in the following industries: ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the M-1. Shipments by Federal Government agencies. Shipments of imports on order (includes imports in the special import categories).

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent change							Revision ²		
	Month-to-month			Average monthly rate of change ¹				Year ago Feb. 1981	Average monthly	
	Jan.- Feb. 1982	Dec. 1981- Jan. 1982	Nov.- Dec. 1981	Fourth quarter 1981	Third quarter 1981	Second quarter 1981	Mar. 1981 through Feb. 1982		Feb. 1981 through Jan. 1982	Feb. 1977- 1981
Shipments:										
All manufacturing industries.....	+1.7	-2.5	-0.6	-1.5	-0.6	+1.1	-0.3	0.1	0.2	0.1
Durable goods industries.....	+2.7	-4.1	-0.6	-2.0	-1.0	+1.4	-0.4	0.3	0.4	0.3
Nondurable goods industries.....	+0.8	-1.0	-0.5	-1.0	-0.1	+0.8	-0.2	0.7	0.3	0.5
Inventories:										
All manufacturing industries.....	+0.2	-0.3	-1.1	0.0	+0.8	+0.4	+1.4	0.4	0.1	0.0
New orders:										
All manufacturing industries.....	+0.9	-1.4	-0.3	-1.8	-0.5	+0.7	-0.4	0.9	0.3	0.4
Durable goods industries.....	+1.7	-2.1	-0.2	-2.6	-0.8	+0.6	-0.6	1.0	0.6	0.6
Nondurable goods industries.....	+0.1	-0.8	-0.3	-1.0	-0.2	+0.8	-0.2	0.8	0.4	0.5
Unfilled orders:										
Durable goods industries.....	-0.2	+0.1	-0.4	-0.8	+0.3	+0.2	0.0	0.2	0.1	0.1

- Represents zero.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Feb. 1982P	Jan. 1982 ^F	Dec. 1981	Nov. 1981	Feb. 1982P	Jan. 1982 ^F	Dec. 1981	Nov. 1981
All manufacturing industries.....	1.73	1.76	1.72	1.73	3.76	3.86	3.74	3.72
Durable goods industries.....	2.31	2.37	2.28	2.29	4.56	4.66	4.51	4.49
Stone, clay, and glass products.....	1.80	1.75	1.82	1.80	0.59	0.60	0.68	0.67
Primary metals.....	2.58	2.39	2.57	2.38	2.43	2.39	2.71	2.54
Fabricated metals.....	2.15	2.25	2.15	2.18	3.29	3.42	3.36	3.33
Machinery, except electrical.....	2.45	2.59	2.44	2.44	4.61	4.77	4.60	4.57
Electrical machinery.....	2.31	2.37	2.36	2.36	4.62	4.70	4.62	4.47
Transportation equipment.....	2.40	2.59	2.28	2.40	11.76	12.44	10.61	11.25
Instruments and related products.....	2.48	2.45	2.30	2.36	1.88	1.82	1.69	1.76
Nondurable goods industries.....	1.15	1.15	1.14	1.15	0.57	0.62	0.60	0.62
Food and kindred products.....	0.94	0.96	0.99	1.01	(X)	(X)	(X)	(X)
Tobacco products.....	3.62	3.67	3.56	3.44	(X)	(X)	(X)	(X)
Textile mill products.....	1.59	1.70	1.73	1.71	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.36	1.34	1.35	1.35	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.36	1.36	1.29	1.35	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.64	0.58	0.56	0.55	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.47	1.48	1.49	1.59	(X)	(X)	(X)	(X)

(NA) Not available.

^PPreliminary.^FRevised.

(X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums, farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

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Manufacturers' Shipments, Inventories, and Orders

MARCH 1982

M3-1(82)-3

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U.S. Department of Commerce
BUREAU OF THE CENSUS

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in March increased 0.2 percent or \$0.4 billion from February, the Department of Commerce, Bureau of the Census reported today. Excluding orders for defense capital goods, manufacturers' new orders were up \$1.1 billion or 0.7 percent to \$151.5 billion, following a 0.6 percent increase in February.

New orders for manufacturers' durable goods increased in March by \$0.3 billion or 0.4 percent to \$80.1 billion, revised from the earlier estimate of a 1.9 percent increase. Most of the revision was due to more complete reporting in the transportation equipment and fabricated metal products categories.

Within the major industry groups, new orders for electrical machinery and fabricated metal products showed the largest increases in March. For electrical machinery, new orders were up \$1.6 billion or 13.9 percent from February to \$12.9 billion. Most of this increase was attributable to orders for defense communication equipment. New orders for fabricated metals were up \$0.2 billion or 2.3 percent to \$9.8 billion.

New orders for transportation equipment, valued at \$19.1 billion, showed little change from February, as increases in the motor vehicle and parts and aircraft and parts industries were offset by large declines in shipbuilding and railroad equipment. New orders for primary metals fell for the eighth consecutive month, as both the steel and nonferrous metals industries continued downward. The March decline in primary metals was \$0.7 billion or 8.3 percent to \$7.9 billion.

New orders for nondefense capital goods were up for the first time since November. March new orders were estimated at \$22.1 billion, up \$1.0 billion or 4.8 percent from February. New orders for defense capital goods declined \$0.7 billion or 8.5 percent to \$7.9 billion, following increases of between 10 and 30 percent per month since the 1981 low last October of \$3.8 billion.

Shipments of manufactured goods declined in March \$1.1 billion or 0.7 percent to \$158.9 billion. Except for a 2.0 percent increase in February, shipments have been declining since last June when they were valued at \$171.5 billion.

Within the durable goods sector, shipments were down \$0.9 billion or 1.1 percent from February to \$79.4 billion. The largest decline was in the primary metals category where shipments fell by \$1.0 billion or 9.7 percent to \$8.9 billion, the lowest level since March 1978. Shipments by producers of transportation equipment were up in March \$0.4 billion or 2.7 percent to \$16.9 billion. Shipments by the motor vehicle and parts industry increased \$0.4 billion or 3.6 percent to \$10.3 billion, following a 10.5 percent increase in February.

Shipments by nondurable goods manufacturers declined \$0.2 billion or 0.3 percent in March to \$79.5 billion, the seventh decline in the last 8 months. The largest decreases were in petroleum products and food products shipments, each declining \$0.2 billion.

The backlog of orders of manufacturers increased \$0.5 billion or 0.2 percent to \$318.8 billion, following 6 months of declines. The backlog of orders for defense capital goods increased \$3.1 billion or 3.6 percent to \$90.6 billion. Excluding the defense orders backlog, manufacturers' unfilled orders declined \$2.6 billion or 1.1 percent for the month to \$228.3 billion.

The book value of manufacturers' inventories declined in March \$1.0 billion or 0.4 percent to \$275.2 billion, the third decline in the last 4 months. Most of the decrease came in the durable goods sector, which was down \$0.6 billion or 0.3 percent to \$183.8 billion. The inventory to shipments ratio for March was 1.73, unchanged from February.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for April is scheduled for release on May 21, 1982, and the full report is scheduled for release on June 2, 1982.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	Seasonally adjusted					Not seasonally adjusted											
		Monthly			Quarterly		Monthly						Annual					
		Mar. 1982 ^a	Feb. 1982 ^a	Jan. 1982 ^a	Dec. 1981	I 1981	IV 1981	III 1981	Mar. 1982 ^a	Last 4 months 1981 ^a	Dec. 1981	Nov. 1981	Oct. 1981	Jan. 1982 ^a	1981	1980		
	TOTALS																	
1	All manufacturing industries.....	158,860	159,936	156,861	161,081	475,356	487,125	508,423	167,500	144,942	175,250	167,163	152,084	157,597	1,947,773	1,845,934		
2	Durable goods industries.....	141,916	143,439	141,729	143,856	426,779	435,717	451,099	148,701	144,528	154,278	149,580	136,559	140,945	1,778,014	1,656,526		
3	Non-durable goods industries.....	84,649	85,230	82,864	85,591	252,764	258,693	268,852	89,337	85,714	84,594	87,668	78,456	82,490	1,036,806	967,408		
4	Durable goods industries.....	79,402	80,248	77,740	81,146	237,441	245,370	260,339	80,693	78,300	78,365	81,321	75,385	79,476	1,019,879	939,133		
5	Non-durable goods industries.....	67,468	68,177	66,128	68,961	201,673	207,422	217,095	68,570	67,133	67,231	68,342	63,132	67,023	852,225	786,236		
6	Non-durable goods industries.....	79,458	79,421	79,425	79,425	237,960	241,775	258,064	82,277	82,612	83,229	86,414	76,709	77,419	927,896	809,493		
7	Non-durable goods industries.....	17,381	17,053	16,536	16,950	50,870	50,871	51,567	17,499	17,144	16,581	17,481	15,224	15,423	202,600	186,441		
	MARKET CATEGORIES																	
	Home goods and apparel.....	12,315	12,052	11,179	11,088	35,526	36,852	37,409	12,801	12,021	12,564	12,178	11,203	10,111	145,530	135,105		
	Consumer staples.....	29,806	29,272	28,854	28,551	88,129	85,721	87,405	29,737	28,753	28,439	28,791	28,796	28,546	345,684	337,454		
	Equipment and defense products.....	25,835	26,016	25,625	27,065	76,496	78,686	77,437	27,693	26,103	25,253	27,417	21,797	25,159	306,690	277,284		
	Automotive equipment.....	11,860	11,584	10,608	11,278	36,103	35,750	34,268	11,499	11,293	10,313	14,826	12,575	11,488	138,828	126,411		
	Construction materials, supplies, and intermediate products.....	11,515	11,288	11,333	11,397	34,136	34,881	37,354	11,559	10,611	10,508	12,236	10,827	11,495	149,978	154,458		
	Other materials, supplies, and intermediate products.....	67,449	69,226	70,442	71,127	207,117	217,527	226,553	71,455	67,389	68,469	76,500	71,036	70,735	891,128	823,553		
	SUPPLEMENTARY SERIES ^b																	
	Household durable goods industries.....	5,378	5,136	4,980	4,921	15,296	15,243	15,574	5,077	4,154	4,583	5,276	4,377	4,676	63,344	58,493		
	Consumer durables industries.....	21,282	21,254	20,902	20,717	63,553	63,183	65,974	20,196	18,690	18,697	20,049	24,184	27,699	338,562	308,368		
	Non-durable goods industries.....	4,825	4,618	4,161	4,227	13,606	13,466	12,682	4,539	4,300	4,376	4,779	3,921	3,673	59,811	56,210		
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries.....	3,767	3,825	3,877	3,822	11,469	11,527	12,278	3,800	3,583	3,239	3,903	3,676	3,685	49,051	45,518		
	Stone, clay, and glass products.....	444	491	505	481	1,440	1,467	1,527	508	478	461	523	467	445	5,843	5,923		
	Glass containers.....	8,887	9,847	10,542	9,803	29,276	31,501	35,561	9,857	10,146	9,528	9,090	12,253	11,351	137,970	134,051		
	Plastic, furmace, and steel mill metal.....	4,368	4,497	5,407	5,144	14,772	18,268	4,966	5,177	4,958	6,392	6,108	5,765	5,639	70,913	65,481		
	Metals.....	3,770	3,921	4,496	4,838	11,887	12,468	13,899	4,023	3,906	3,588	4,936	4,535	4,336	54,039	51,485		
	Fabricated metal products.....	9,700	9,564	9,186	9,440	28,450	28,923	31,285	10,188	9,646	8,328	9,650	10,405	10,110	123,111	118,868		
	Metal cans, barrels, and drums.....	799	864	882	877	2,565	2,481	2,661	816	817	726	696	854	737	9,991	10,199		
	Machinery, except electrical.....	16,362	17,125	16,367	17,417	50,441	51,787	51,649	18,348	17,429	17,959	18,432	16,565	20,644	185,387	182,837		
	Electrical, electronic, and other machinery.....	1,493	1,466	1,486	1,466	4,319	4,204	4,485	1,485	1,478	1,538	1,594	1,381	1,547	11,639	11,399		
	Transportation equipment.....	1,693	1,629	1,896	1,868	5,831	5,501	5,607	2,007	1,910	1,920	1,921	1,915	1,747	16,748	15,699		
	Construction, mining, and metal-handling equipment.....	3,066	3,461	3,151	3,605	9,678	10,576	10,166	3,223	3,544	3,434	3,321	3,339	3,069	35,287	35,287		
	Metalworking machinery.....	922	932	871	871	2,481	2,783	2,989	1,052	996	889	915	1,114	1,036	11,615	11,185		
	General industrial machinery.....	1,367	1,402	1,404	1,485	4,173	4,439	4,383	1,431	1,441	1,258	1,543	1,330	1,376	17,174	15,987		
	See footnotes at end of table.																	

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURES' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(Billions of dollars)

SIC	Industry	Seasonally adjusted				Not seasonally adjusted											
		Monthly		Quarterly		Last 4 months				Monthly				Annual			
		Mar. 1962	Jan. 1963	1962	1963	Mar. 1962	Apr. 1962	May 1962	Jun. 1962	Mar. 1963	Apr. 1963	May 1963	Jun. 1963	1962	1963	1963	1963
	TOTALS																
	All manufacturing industries.....	159,408	156,189	678,462	679,777	146,000	141,777	148,477	154,067	177,804	169,653	157,114	161,790	1,086,000	1,086,770		
	Manufacturing industries excluding transportation.....	140,031	139,998	614,256	615,117	140,279	138,177	141,401	146,420	159,204	151,896	139,476	146,417	1,077,001	1,076,581		
	Manufacturing industries with unfilled orders.....	85,364	84,362	413,728	414,745	86,400	84,400	86,110	87,869	96,962	90,178	83,596	87,000	605,006	604,860		
	Durable goods industries.....	79,800	77,094	417,031	417,524	80,850	81,000	81,270	82,654	93,237	86,964	80,159	83,604	603,008	603,180		
	Durable goods with unfilled orders.....	68,102	67,779	371,004	371,271	71,171	69,600	69,400	69,704	77,771	73,140	69,400	71,656	551,154	551,75		
	Nondurable goods industries.....	79,298	78,904	271,410	272,878	80,150	80,410	80,150	81,162	86,771	82,690	76,704	77,736	477,000	476,530		
	Industries with unfilled orders.....	77,092	76,615	268,720	269,969	78,447	78,117	78,117	79,124	85,771	81,730	75,904	76,971	461,000	460,270		
	Industries without unfilled orders.....	62,177	61,389	182,690	182,909	61,653	61,300	61,733	62,145	69,204	65,923	61,285	62,716	371,000	370,302		
	MARKET CATEGORIES																
	Home goods and apparel.....	12,805	11,777	55,576	56,124	14,002	13,001	13,001	13,777	12,771	12,001	11,004	11,004	145,004	144,802		
	Consumer staples.....	29,795	29,785	86,117	86,605	30,001	29,500	29,500	30,001	29,001	28,001	27,001	26,001	345,001	344,505		
	Equipment and defense products, aircraft, and spacecraft.....	76,900	77,117	31,000	31,000	76,000	76,000	76,000	76,000	76,000	76,000	76,000	76,000	311,001	311,001		
	Construction materials, supplies, and intermediate products.....	11,800	11,790	33,000	33,000	11,770	11,770	11,770	11,770	11,770	11,770	11,770	11,770	148,771	148,771		
	Other materials, supplies, and intermediate products.....	11,000	10,778	33,000	33,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	145,000	145,000		
	SUPPLEMENTARY SERIES																
	Household durable goods industries.....	69,684	67,564	213,887	214,000	70,170	69,000	69,000	69,000	70,000	69,000	69,000	69,000	288,000	288,000		
	Consumer goods industries.....	5,461	5,333	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	63,113	63,113		
	Consumer services.....	22,005	21,521	62,000	62,000	22,000	22,000	22,000	22,000	22,000	22,000	22,000	22,000	281,000	281,000		
	Defense.....	7,011	6,606	21,000	21,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	7,000	92,001	92,001		
	INDUSTRY GROUPS AND INDUSTRIES																
	Durable goods industries.....	3,681	3,751	11,001	11,001	12,110	12,110	12,110	12,110	12,110	12,110	12,110	12,110	45,221	45,221		
	Stone, clay, and glass.....	7,871	8,584	25,608	25,608	25,608	25,608	25,608	25,608	25,608	25,608	25,608	25,608	111,057	111,057		
	Primary nonferrous, steel mills.....	3,681	3,987	12,000	12,000	14,500	14,500	14,500	14,500	14,500	14,500	14,500	14,500	64,511	64,511		
	Nonferrous and other primary products.....	4,310	4,603	10,900	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	11,000	53,000	53,000		
	Fabricated metal products.....	9,772	9,555	28,000	28,000	28,000	28,000	28,000	28,000	28,000	28,000	28,000	28,000	115,000	115,000		
	Machinery, except electrical.....	14,880	14,162	45,462	45,462	45,462	45,462	45,462	45,462	45,462	45,462	45,462	45,462	204,448	204,448		
	Machinery and turbines.....	841	1,410	3,436	3,436	3,436	3,436	3,436	3,436	3,436	3,436	3,436	3,436	1,160	1,160		
	Construction, mining, and material-handling equipment.....	2,688	2,683	8,350	8,350	8,350	8,350	8,350	8,350	8,350	8,350	8,350	8,350	3,350	3,350		
	General industrial machinery.....	1,460	1,405	3,994	3,994	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	17,581	17,581		

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(Millions of dollars)

SIC	Industry	Seasonally adjusted				Not seasonally adjusted ¹												Annual
		Monthly				Quarterly				Monthly								
		Mar. 1982 ^a	Feb. 1982 ^a	Jan. 1982 ^a	Dec. 1981	I 1982 ^a	IV 1981	III 1981	Mar. 1982 ^b	Feb. 1982 ^a	Jan. 1982 ^a	Dec. 1981	Mar. 1981	Feb. 1981	Jan. 1981	Dec. 1980		
36	Electrical machinery.....	12,908	11,337	11,506	11,650	35,751	33,893	36,462	13,464	12,163	11,419	11,120	12,231	12,047	11,215	10,573	130,744	
361,2	Electrical transmission and distribution equipment and industrial apparatus.....	1,690	1,623	1,830	1,917	5,163	5,400	5,937	1,813	1,837	1,797	1,747	2,114	2,039	1,953	1,820	22,892	
363	Household appliances.....	1,036	969	996	863	2,981	2,981	3,249	1,092	879	891	891	1,168	1,035	1,029	995	12,518	
366	Radio and TV.....	1,046	746	830	884	2,622	2,581	3,083	1,002	871	851	877	851	1,089	728	860	10,884	
366	Communication equipment.....	4,916	3,572	3,619	3,397	12,105	10,020	11,105	5,067	3,821	3,850	3,443	3,670	3,357	3,500	3,228	38,248	
367	Electronic components.....	2,290	2,452	3,430	2,620	7,062	7,682	6,959	2,486	2,481	2,421	2,294	2,429	2,577	2,115	1,861	26,845	
37	Transportation equipment.....	19,074	19,053	16,959	16,071	55,086	47,280	59,411	20,197	18,007	16,727	15,747	20,758	17,758	17,479	17,681	220,808	
372,p	Aircraft, missiles, and spacecraft.....	7,714	7,166	5,785	4,657	20,465	12,055	16,839	6,862	6,027	6,092	5,543	5,576	4,105	5,395	5,240	59,381	
3731	Ships, boats, and floating structures.....	638	1,410	1,469	606	3,317	2,558	3,966	920	1,199	1,323	570	1,239	1,384	1,252	1,708	14,296	
3795	Instruments and related products.....	4,110	4,334	3,893	4,111	12,337	12,722	12,822	4,417	4,192	3,517	4,204	4,376	4,058	3,669	4,306	46,380	
38	All other durable goods industries.....	7,831	8,075	7,787	7,841	23,643	23,513	24,238	8,258	7,798	6,649	6,676	8,830	8,440	7,170	7,544	98,826	
39	Preliminary. Revised.																93,314	

¹Preliminary. Revised.

^aShipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

^bThe supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radio and TV; optical goods, watches, and clocks and miscell.
Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.
Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.
Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.
The data are comparable to those published annually in the M-17's. Shipments to Federal Government agencies formerly Shipments of defense-related industries¹, for the specified industries.

THE UNIVERSITY OF CHICAGO

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURES' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--A continued

SIC	Industry group	Seasonally adjusted (billions of dollars)												Not seasonally adjusted ^a				
		Monthly				Quarterly				Monthly				Monthly				
		Mar. 1982 ^b	Feb. 1982 ^c	Jan. 1982 ^c	Dec. 1981	III 1981	II 1981	I 1981	IV 1980	III 1980	Mar. 1982 ^b	Feb. 1982 ^c	Jan. 1982 ^c	Dec. 1981	Mar. 1981	Feb. 1981	Jan. 1981	Dec. 1980
26	Durable goods industries-- continued																	
361,-	Electrical machinery.....	53,583	52,037	52,002	51,563	51,526	50,124	-8,-894	-7,245	-5,819	54,074	52,-995	51,482	57,741	46,878	46,460	-7,706	-7,477
363	Household appliances.....	7,952	8,073	8,229	8,172	8,424	8,392	8,361	7,967	7,905	7,962	8,065	8,128	8,040	8,371	6,243	9,157	7,844
365	Radio and TV.....	322	301	364	339	423	423	415	411	421	333	318	337	288	430	417	371	359
366	Communication equipment.....	31,364	29,710	29,537	29,180	28,823	27,542	26,345	24,863	31,780	30,245	29,825	28,995	26,683	26,007	26,124	25,287	24,311
367	Electronic components.....	12,367	12,372	12,271	12,286	12,071	12,207	11,735	11,019	12,454	12,456	12,347	12,087	11,905	11,833	11,702	11,016	11,659
37	Transportation equipment.....	120,435	118,307	115,737	113,927	116,073	115,515	116,158	113,043	114,313	120,774	119,375	118,766	115,369	116,556	116,419	116,265	114,332
372,-	Automotive, missiles, and aerospace.....																	
372	Automotive.....	97,749	97,702	91,899	90,435	93,126	90,504	91,299	88,371	90,466	97,715	95,783	96,229	91,877	91,327	91,076	91,325	89,668
373	Shipbuilding and military tanks.....	16,086	16,905	16,843	16,367	17,303	16,953	16,477	16,087	15,421	16,386	16,740	16,401	16,396	16,775	16,467	16,330	16,068
374	Instruments and related products.....	7,424	7,362	7,132	7,160	7,067	7,056	7,012	6,987	6,893	7,465	7,283	7,096	7,112	7,051	7,091	6,970	6,942
38	Nonmetallic mineral products industries.....	4,892	4,895	4,783	4,646	4,853	4,955	4,915	4,867	4,050	4,766	4,591	4,531	4,337	4,779	4,884	4,220	4,021

^a Preliminary.^b Revised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are groupings of the separate industry categories as follows:

Household durable goods industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware. Household appliances, radio and TV, and electronic components.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (all series) categories.

Nondefense products--Machinery, except electrical (excluding non-machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published monthly in "The Blue Chip Economic Indicators" and the quarterly "Survey of Current Business". Shipments are seasonalized quarterly.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(billions of dollars)

Industry	Seasonally adjusted												Not seasonally adjusted														
	Monthly				Quarterly				Last 4 months				Monthly														
	Mar. 1982 ^a	Feb. 1982 ^a	Jan. 1982 ^a	Dec. 1981 ^a	III 1981	II 1981	I 1981	IV 1980	III 1980	Mar. 1982 ^a	Feb. 1982 ^a	Jan. 1982 ^a	Dec. 1981 ^a	Nov. 1981	Oct. 1981 ^a	Sept. 1981 ^a	Aug. 1981 ^a	July 1981 ^a	June 1981 ^a	May 1981 ^a	April 1981 ^a	March 1981 ^a	Feb. 1981 ^a	Jan. 1981 ^a	Dec. 1980		
INDUSTRY GROUPS AND INDUSTRIES--Continued																											
Durable goods industries--Continued																											
Electrical machinery.....	26,080	26,150	26,187	26,325	26,517	25,689	25,037	24,383	24,350	26,236	26,361	25,853	25,227	24,490	24,457												
Electrical transmission and distribution equipment and industrial apparatus.....	4,016	4,464	4,485	4,528	4,744	4,688	4,263	4,163	4,222	4,429	4,481	4,467	4,277	4,259	4,182												
Household appliances.....	1,732	1,757	1,820	1,782	2,021	1,934	1,905	1,874	1,843	1,940	1,930	1,911	1,936	1,892	1,841												
Electronic components.....	9,183	9,021	8,895	8,911	8,859	8,886	8,774	8,741	8,722	8,897	8,725	8,701	8,406	8,345	8,281												
Transportation equipment.....	4,761	4,733	4,793	4,856	4,874	4,795	4,560	4,557	4,450	4,798	4,743	4,724	4,507	4,603	4,513												
Motor vehicles and parts.....	39,461	39,711	39,012	39,175	39,424	38,628	38,111	36,480	35,442	39,829	39,546	38,410	38,557	36,181	37,550												
Motor vehicles and parts, except motor vehicles and parts.....	6,677	6,555	6,641	6,700	6,816	6,725	6,605	6,604	6,409	6,758	6,737	6,801	6,646	6,709	6,829												
Shipbuilding and military tank vehicles.....	2,239	2,402	2,432	2,462	2,586	2,636	2,942	2,865	2,405	2,210	2,242	2,337	2,571	2,484	2,388												
Instruments and related products.....	9,798	9,707	9,606	9,765	9,738	9,603	9,281	9,037	9,893	9,712	9,767	9,473	9,471	9,376	9,287												
Photographic goods.....	4,391	4,346	4,303	4,375	4,382	4,247	2,259	2,243	2,172	2,497	2,430	2,494	2,291	2,230	2,215												
All other durable goods industries.....	13,986	14,170	14,386	14,478	14,680	14,508	14,413	14,046	14,175	14,411	14,483	14,461	14,458	14,466	14,435												
Nondurable goods industries--Continued																											
Food and kindred products.....	20,874	21,082	21,071	21,101	21,826	21,862	22,237	22,125	22,368	20,610	21,111	21,764	21,734	22,343	22,877												
Beverages.....	3,748	3,891	3,891	3,891	3,863	3,743	3,909	3,866	3,770	3,897	3,803	3,881	3,881	3,746	3,746												
Fats and oils.....	1,401	1,491	1,719	1,593	1,696	1,668	1,792	2,055	2,388	1,552	1,668	1,842	1,793	1,984	2,104												
Tobacco products.....	11,667	11,821	11,641	11,895	12,481	12,456	12,729	12,653	12,885	11,212	11,851	12,117	12,183	11,982	12,346												
Textile mill products.....	4,931	4,309	4,343	4,743	3,966	3,570	3,628	3,588	3,611	4,011	4,114	4,494	4,828	3,853	3,746												
Paper and allied products.....	9,422	9,494	9,738	9,831	9,588	8,332	8,286	7,748	7,818	8,984	8,840	8,741	8,236	8,666	8,666												
Pulp, paper, etc.....	3,388	3,378	3,321	3,193	3,113	3,018	2,972	2,794	2,894	3,410	3,344	3,286	3,284	3,202	3,202												
Paperboard containers.....	2,368	2,352	2,271	2,337	2,255	2,182	2,188	1,973	2,171	2,251	2,314	2,386	2,374	2,171	2,101												
All other paper containers.....	3,266	3,119	3,111	3,128	3,059	3,126	3,032	2,953	3,021	3,184	3,085	3,047	3,183	3,022	2,942												
Chemicals and allied products.....	20,699	20,513	20,464	20,424	20,363	20,218	19,488	18,489	18,779	20,918	20,902	20,799	20,771	18,771	18,771												
Industrial chemicals, except pigments.....	6,829	6,743	6,717	6,783	6,810	6,961	6,653	6,384	6,200	6,748	6,845	6,842	6,531	6,321	6,321												
Drugs, soap, and toiletries.....	6,236	6,248	6,160	6,041	5,867	5,839	5,814	5,412	5,596	6,142	6,167	6,048	5,777	5,706	5,655												
Petroleum and coal products.....	8,969	9,016	8,710	8,680	8,867	8,996	8,985	8,400	8,805	8,522	8,692	8,855	8,487	8,795	8,636												
Rubber and plastic products.....	5,552	5,487	5,418	5,508	5,701	5,634	5,518	5,279	5,232	5,489	5,573	5,508	5,500	5,673	5,405												
n.e.c.....	15,450	15,919	15,900	15,713	15,182	14,817	14,636	14,253	14,263	15,144	15,134	14,977	14,553	14,233	14,086												
All other nondurable goods industries.....	2,239	2,402	2,432	2,462	2,586	2,636	2,942	2,865	2,405	2,210	2,242	2,337	2,571	2,484	2,388												
Preliminary.....	2,239	2,402	2,432	2,462	2,586	2,636	2,942	2,865	2,405	2,210	2,242	2,337	2,571	2,484	2,388												

Preliminary.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventory are at the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--household furniture, kitchen articles and pottery, cutlery, handtools, and hardware.

Capital goods industries--equipment, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery excluding household appliances, radio and TV, and electronic equipment.

Nondefense products--machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery excluding household appliances, radio and TV, and electronic equipment.

And the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--based on separate reports on defense work filled by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the W-17, "Shipments to Federal Government agencies," formerly "Shipments of defense-related industries," for the manufacturing division.

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent changes							Revisions ²		
	Month-to-month			Average monthly rates of change ¹				Year ago Mar. 1981	Average monthly	
	Feb.- Mar. 1982	Jan.- Feb. 1982	Dec. 1981- Jan. 1982	First quarter 1982	Fourth quarter 1981	Third quarter 1981	Apr. 1981 through Mar. 1982		Mar. 1981 through Feb. 1982	Mar. 1977- 1981
Shipments:										
All manufacturing industries.....	-0.7	+2.0	-2.6	-0.5	+1.5	+0.6	-0.4	0.1	0.2	0.2
Durable goods industries.....	-1.1	+3.3	-4.2	-0.7	+2.0	+1.0	-0.6	0.4	0.4	0.2
Nondurable goods industries.....	-0.3	+0.7	-1.0	-0.2	+1.0	+0.1	-0.1	0.3	0.3	0.3
Inventories:										
All manufacturing industries.....	-0.4	+0.4	-0.3	-0.1	-0.1	-0.8	+0.3	0.1	0.1	0.1
New orders:										
All manufacturing industries.....	+0.2	-1.8	-2.1	0.0	+1.8	+0.5	-0.4	0.1	0.3	0.4
Durable goods industries.....	+0.4	+3.5	-3.3	+0.2	+2.6	+0.8	-0.7	0.5	0.7	0.7
Nondurable goods industries.....	0.0	+0.2	-0.8	-0.2	+1.0	+0.2	-0.1	0.2	0.3	0.2
Unfilled orders:										
Durable goods industries.....	+0.2	-0.2	-0.2	0.0	+0.8	-0.3	-0.1	0.0	0.1	0.2

- Represents zero.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Mar 1982 ^P	Feb 1982 ^P	Jan 1982	Dec 1981	Mar 1982 ^P	Feb 1982 ^P	Jan 1982	Dec 1981
All manufacturing industries.....	1.73	1.73	1.75	1.71	3.77	3.73	3.85	3.74
Durable goods industries.....	2.32	2.30	2.37	2.28	4.59	4.52	4.66	4.51
Stone, clay, and glass products.....	1.83	1.79	1.75	1.82	0.56	0.59	0.60	0.68
Primary metals.....	2.86	2.59	2.39	2.57	2.58	2.43	2.39	2.71
Fabricated metals.....	2.07	2.14	2.25	2.15	3.19	3.25	3.41	3.36
Machinery, except electrical.....	2.49	2.48	2.59	2.44	4.34	4.46	4.77	4.60
Electrical machinery.....	2.30	2.31	2.37	2.36	4.72	4.61	4.70	4.62
Transportation equipment.....	2.33	2.38	2.58	2.25	11.64	11.67	12.51	10.61
Instruments and related products.....	2.42	2.37	2.45	2.30	1.83	1.79	1.82	1.69
Nondurable goods industries.....	1.15	1.15	1.15	1.14	0.56	0.58	0.62	0.60
Food and kindred products.....	0.94	0.94	0.96	0.99	(X)	(X)	(X)	(X)
Tobacco products.....	3.86	3.62	3.67	3.56	(X)	(X)	(X)	(X)
Textile mill products.....	1.57	1.60	1.70	1.73	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.39	1.37	1.34	1.35	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.36	1.35	1.36	1.29	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.65	0.64	0.58	0.56	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.61	1.55	1.48	1.49	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. ^RRevised. (X) Not applicable.¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

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U.S. Department of Commerce
BUREAU OF THE CENSUS

Manufacturers' Shipments, Inventories, and Orders

APRIL 1982

M3-1(82)-4

For Wire Transmission 3:00 P.M. E.D.T. Wednesday, June 2, 1982

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in April declined \$3.6 billion or 2.3 percent to \$155.3 billion the Department of Commerce, Bureau of the Census reported today. New orders had been generally declining since last July, but in February showed a 1.3 percent increase and in March a 0.3 percent increase. Shipments of manufactured goods decreased \$0.8 billion or 0.5 percent in April to \$157.4 billion. Shipments have declined every month since last June except for a 1.8 percent increase in February. The book value of manufacturers' inventories decreased \$0.8 billion or 0.3 percent to \$274.2 billion, the fourth decline in the last 5 months.

The decline in manufacturers' orders in April was concentrated in the capital goods sector. Orders for defense capital goods were down \$1.9 billion or 24 percent to \$6.0 billion. Despite this decrease and the March decline of 8.6 percent, defense orders still remained at a relatively high level, over 50 percent above April a year ago. New orders for nondefense capital goods were down \$1.1 billion or 5.1 percent to \$20.9 billion, following a 7.9 percent increase in March.

Within the major industry groups, most of the durable goods categories showed new order declines in April. Orders for transportation equipment were down \$1.4 billion or 7.0 percent to \$18.1 billion. New orders for the aircraft and parts industry dropped \$3.0 billion or 39 percent to \$4.7 billion, more than offsetting an increase in the motor vehicle industry of \$1.2 billion. New orders for electrical machinery decreased \$0.4 billion or 3.3 percent to \$12.4 billion while nonelectrical machinery orders were flat. New orders for primary metals registered the first monthly increase since last July. April orders were valued at \$8.1 billion, up \$0.3 billion or 4.4 percent from March. Virtually all of the increase was attributed to the nonferrous metal producers.

Most of the declines in manufacturers shipments were in the nondurable goods industries where shipments declined \$0.7 billion or 0.9 percent to \$78.3 billion. An increase in petroleum products shipments of \$0.7 billion or 5.3 percent to \$14.5 billion was more than offset by declines in most of the

other nondurable goods industries. Excluding the petroleum increase, nondurable goods shipments were down 2.1 percent.

Shipments of manufacturers' durable goods showed a small decline in April of \$0.1 billion or 0.2 percent to \$79.1 billion. A decline of \$0.9 billion or 5.6 percent in shipments by nonelectrical machinery producers was offset by a \$0.9 billion or 5.2 percent increase in transportation equipment industry. The motor vehicle industry showed a \$1.5 billion or 14 percent increase over March, the third consecutive monthly increase following significant declines between July 81 and January 1982.

The value of the orders backlog of manufacturers decreased \$2.2 billion or 0.7 percent in April to \$317.0 billion. This is the sixth decline in the last 7 months and the largest since the \$5.1 billion drop in October. Within the specific categories the orders backlog for fabricated metal products declined \$1.1 billion or 3.9 percent; for nonelectrical machinery, \$1.1 billion or 1.6 percent; and for steel, \$0.6 billion or 4.8 percent.

Declines in the book value of manufacturers' inventories were widespread. Within the durable goods sector inventory increases in the aircraft and parts industry of \$0.7 billion or 2.7 percent, in nonelectrical machinery of \$0.4 billion or 0.9 percent, and in instruments and related products of \$0.2 billion or 2.6 percent, offset declines in all of the other categories. Inventories in the nondurable goods sector declined \$0.8 billion or 0.8 percent to \$90.7 billion, with the largest decrease coming in the petroleum products industry, down \$0.5 billion or 5.4 percent from March.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for May is scheduled for release on June 22, 1982, and full report is scheduled for release on June 30, 1982.

Table 1. VALUE OF CAPITAL GOODS IN MANUFACTURING, MINING, ELECTRIC, GAS, WATER, TRANSPORTATION, AND RECREATION, SUPPLIES

SIC	Industry	Seasonally adjusted					Not seasonally adjusted					Not seasonally adjusted: p ¹					Annual				
		Monthly					Quarterly					Annually									
		Mar. 1962	Apr. 1962	May 1962	Jun. 1962	Jul. 1962	1 1962	2 1962	3 1962	4 1962	1962	Mar. 1963	Apr. 1963	May 1963	Jun. 1963	1963		Mar. 1964	Apr. 1964	May 1964	Jun. 1964
TOOLS																					
1	All manufacturing industries.....	1,852.41	1,782.22	1,802.22	1,802.22	1,802.22	1,802.22	1,802.22	1,802.22	1,802.22	1,802.22	1,802.22	1,802.22	1,802.22	1,802.22	1,802.22	1,802.22	1,802.22	1,802.22	1,802.22	1,802.22
2	Manufacturing industries excluding transportation.....	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42
3	Manufacturing industries with unfilled orders.....	80.75	80.75	80.75	80.75	80.75	80.75	80.75	80.75	80.75	80.75	80.75	80.75	80.75	80.75	80.75	80.75	80.75	80.75	80.75	80.75
4	Durable goods industries.....	52.13	52.13	52.13	52.13	52.13	52.13	52.13	52.13	52.13	52.13	52.13	52.13	52.13	52.13	52.13	52.13	52.13	52.13	52.13	52.13
5	Durable goods with unfilled orders.....	6.82	6.82	6.82	6.82	6.82	6.82	6.82	6.82	6.82	6.82	6.82	6.82	6.82	6.82	6.82	6.82	6.82	6.82	6.82	6.82
6	Non-durable goods industries.....	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14	58.14
7	Non-durable goods with unfilled orders.....	16.68	16.68	16.68	16.68	16.68	16.68	16.68	16.68	16.68	16.68	16.68	16.68	16.68	16.68	16.68	16.68	16.68	16.68	16.68	16.68
MARKET CATEGORIES																					
8	Home goods and apparel.....	11.608	11.608	11.608	11.608	11.608	11.608	11.608	11.608	11.608	11.608	11.608	11.608	11.608	11.608	11.608	11.608	11.608	11.608	11.608	11.608
9	Consumer staples.....	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42	1,412.42
10	Equipment and defense products, except automotive.....	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000	25.000
11	Automotive equipment.....	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42
12	Transportation equipment.....	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42
13	Other intermediate products.....	11.28	11.28	11.28	11.28	11.28	11.28	11.28	11.28	11.28	11.28	11.28	11.28	11.28	11.28	11.28	11.28	11.28	11.28	11.28	11.28
14	Other materials, supplies, and intermediate products.....	6.726	6.726	6.726	6.726	6.726	6.726	6.726	6.726	6.726	6.726	6.726	6.726	6.726	6.726	6.726	6.726	6.726	6.726	6.726	6.726
SUPPLEMENTARY SERIES ²																					
15	Household durable goods, in- dustries.....	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010
16	Capital goods industries.....	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84	26.84
17	Non-durable.....	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42
18	Defense.....	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42	1,112.42
INDUSTRY GROUPS AND INDUSTRIES																					
19	Durable goods, industries	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010
20	Shoes, clay, and glass products.....	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010
21	Glass containers.....	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010
22	Primary metals.....	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010
23	Blast furnaces, steel mills.....	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010
24	Nonferrous and other primary metals.....	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010
25	Fabricated metal products.....	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010
26	Metal cans, barrels, and drums.....	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010
27	Machinery, except electrical.....	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010
28	Transportation industries.....	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010
29	Transportation equipment.....	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010
30	Construction, mining, and other non-durable.....	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010
31	Material-handling equipment.....	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010
32	Material-handling machinery.....	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1,010	1					

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(billions of dollars)

SIC	Industry	Seasonally adjusted				Not seasonally adjusted ¹											
		Monthly			Quarterly	Last 4 months				Monthly				Last 4 months a year ago			
		April 1982 ²	March 1982 ²	Feb. 1982		April 1982 ²	March 1982 ²	Feb. 1982 ²	Jan. 1982	April 1981	March 1981	Feb. 1981	Jan. 1981	April 1980	March 1980	Feb. 1980	Jan. 1980
36	Electrical machinery.....	11,517	11,422	11,300	33,854	11,475	11,955	11,548	10,276	11,101	11,812	11,293	9,986	45,556	45,169	45,169	45,169
361,2	Electrical transmission and distribution equipment and industrial apparatus.....	1,763	1,832	1,769	5,283	5,568	5,901	1,787	1,436	1,900	2,035	1,903	1,650	1,141	1,237	1,141	1,237
363	Household appliances.....	1,014	987	984	2,975	3,031	3,291	1,003	1,060	998	843	1,154	1,160	1,059	1,059	1,059	1,059
365	Radios and TV.....	860	931	885	2,552	2,486	2,726	734	802	860	901	919	721	6,127	6,444	6,444	6,444
369	(Communications equipment.....)	3,323	3,325	3,400	9,968	9,962	9,825	3,603	3,581	3,400	3,018	3,293	2,974	13,602	12,079	13,602	12,079
37	Electronic components.....	7,377	7,165	7,250	21,355	21,018	20,718	7,124	7,018	7,124	7,124	7,124	7,124	2,117	2,117	2,117	2,117
371	Transmitters.....	48,731	48,731	48,731	148,731	148,731	148,731	18,809	18,809	18,809	18,809	18,809	18,809	4,358	4,358	4,358	4,358
372,6	Motor vehicles and parts.....	11,829	10,341	9,998	32,722	32,722	32,722	12,593	11,819	10,255	12,593	12,593	12,593	63,473	63,473	63,473	63,473
372,6	Aircraft, missiles, and spacecraft.....	4,351	4,683	4,320	13,366	14,747	14,218	4,948	4,948	4,948	4,948	4,948	4,948	4,948	4,948	4,948	4,948
3731	Shipbuilding and military aircraft.....	1,176	1,319	1,349	3,474	3,474	3,474	1,176	1,319	1,319	1,319	1,319	1,319	1,319	1,319	1,319	1,319
38	Instrumentation and related products.....	4,003	4,162	4,103	12,265	12,265	12,265	3,451	4,315	4,207	3,532	4,327	4,037	3,984	15,835	1,971	1,971
381-4	Scientific and engineering.....	2,319	2,532	2,400	7,750	7,508	7,508	2,651	2,651	2,651	2,651	2,651	2,651	4,538	4,538	4,538	4,538
386	Photographic and engineering products.....	1,427	1,334	1,448	4,495	4,482	4,442	1,368	1,368	1,368	1,368	1,368	1,368	5,582	5,582	5,582	5,582
39	All other durable goods industries.....	7,794	7,701	8,005	23,336	23,336	23,336	7,864	8,034	7,721	8,762	8,534	8,177	1,971	30,942	32,462	32,462
20	Nondurable goods industries	21,922	22,028	22,421	66,363	66,363	66,363	21,981	22,427	22,591	20,361	22,312	22,860	20,361	87,460	88,418	88,418
201	Food and kindred products.....	5,344	5,304	5,395	15,968	16,407	17,322	5,344	5,344	5,344	5,249	5,249	5,249	5,249	21,295	20,877	20,877
208	Textile mill products.....	3,113	3,113	3,113	9,339	9,339	9,339	3,113	3,113	3,113	3,113	3,113	3,113	3,113	11,928	11,928	11,928
209	Fats and oils.....	1,670	1,670	1,670	5,010	5,010	5,010	1,670	1,670	1,670	1,670	1,670	1,670	1,670	5,010	5,010	5,010
203-9	All other foods.....	8,165	8,784	8,731	26,583	25,446	26,509	7,803	9,335	9,342	7,990	8,935	9,676	8,613	37,131	37,131	37,131
21	Tobacco products.....	1,202	1,138	1,190	3,470	3,592	3,592	1,202	1,121	1,121	1,121	1,121	1,121	1,037	1,037	1,037	1,037
22	Textile mill products.....	3,935	4,131	4,029	11,977	11,977	11,977	3,968	4,401	3,991	3,641	4,225	4,584	4,110	15,890	16,396	16,396
221	Textile mill products.....	3,935	4,131	4,029	11,977	11,977	11,977	3,968	4,401	3,991	3,641	4,225	4,584	4,110	15,890	16,396	16,396
261-3	Chemical and allied products.....	9,716	9,716	9,716	29,148	29,148	29,148	9,716	9,716	9,716	9,716	9,716	9,716	9,716	11,198	11,198	11,198
261-3	Chemical and allied products.....	9,716	9,716	9,716	29,148	29,148	29,148	9,716	9,716	9,716	9,716	9,716	9,716	9,716	11,198	11,198	11,198
265	Paper and allied products.....	1,540	1,605	1,615	4,763	4,863	4,994	1,577	1,788	1,623	1,830	1,695	1,750	1,570	8,398	8,398	8,398
265	Paper and allied products.....	1,540	1,605	1,615	4,763	4,863	4,994	1,577	1,788	1,623	1,830	1,695	1,750	1,570	8,398	8,398	8,398
284	All other paper products.....	2,140	2,008	2,082	6,231	6,182	6,403	2,074	2,060	2,141	2,168	2,168	2,168	1,934	8,398	8,398	8,398
284	Chemicals and allied products.....	14,910	15,206	15,241	45,356	46,175	46,406	14,910	15,206	15,241	14,208	15,067	14,074	14,074	61,976	61,976	61,976
281,6	Industrial chemicals, ex- cept drugs, soap, and toiletries.....	4,658	4,813	4,993	14,471	15,386	16,229	4,658	5,017	5,017	4,709	5,017	4,709	4,709	12,903	12,903	12,903
283,4	Drugs, soap, and toiletries.....	4,222	4,170	4,072	12,465	12,465	12,465	4,222	4,445	4,445	4,445	4,445	4,445	4,445	12,465	12,465	12,465
29	Petroleum and coal products.....	14,516	13,809	14,080	42,405	42,405	42,405	14,516	13,809	14,197	13,136	12,703	12,703	12,703	57,893	57,893	57,893
30	Rubber and plastics products, n.e.c.....	3,396	3,396	3,673	10,618	11,289	12,356	3,680	3,680	3,678	3,367	4,113	4,017	3,864	14,367	14,367	14,367
31	All other nondurable goods industries.....	11,871	12,770	12,960	36,686	36,686	37,392	11,585	12,707	12,702	10,674	11,708	11,942	10,495	47,068	47,068	47,068

¹Preliminary. Revised.²Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.³The supplementary series are groupings of the separate industry categories as follows:

Household durable goods industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances; radio and TV; optoelectronic goods, watches, and clocks; and miscellaneous goods industries--Compassable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense--Iceland--Agriculture, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the GNP. Shipments to Federal Government agencies (Treasury, Defense, and other agencies) for the specific industries.

SIC	Industry	Seasonally adjusted										Not seasonally adjusted ¹									
		Totals					Quarterly					Monthly					Quarterly				
		1962					1964					1962					1964				
		Mar. 1962	Jun. 1962	Sep. 1962	Dec. 1962	Mar. 1963	Jun. 1963	Sep. 1963	Dec. 1963	Mar. 1964	Jun. 1964	Mar. 1962	Jun. 1962	Sep. 1962	Dec. 1962	Mar. 1963	Jun. 1963	Sep. 1963	Dec. 1963	Mar. 1964	Jun. 1964
TOTALS																					
31	All manufacturing industries.....	319,098	319,174	318,255	314,308	319,685	326,613	325,428	329,402	337,729	329,231	322,216	321,253	321,253	321,253	321,253	321,253	321,253	321,253	321,253	321,253
32	Manufacturing industries.....	196,248	198,528	209,364	215,766	205,438	211,549	211,549	207,665	209,688	196,471	201,232	202,316	202,316	202,316	202,316	202,316	202,316	202,316	202,316	202,316
33	Manufacturing industries.....	107,190	109,665	109,746	109,411	109,411	109,411	109,411	109,411	109,411	109,411	109,411	109,411	109,411	109,411	109,411	109,411	109,411	109,411	109,411	109,411
34	Manufacturing industries.....	9,298	9,409	9,409	9,409	9,409	9,409	9,409	9,409	9,409	9,409	9,409	9,409	9,409	9,409	9,409	9,409	9,409	9,409	9,409	9,409
35	Manufacturing industries.....	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128
36	Manufacturing industries.....	196,920	198,084	209,774	215,766	205,438	211,549	211,549	207,665	209,688	196,471	201,232	202,316	202,316	202,316	202,316	202,316	202,316	202,316	202,316	202,316
37	Manufacturing industries.....	15,488	16,227	15,469	16,227	15,469	16,227	15,469	16,227	15,469	16,227	15,469	16,227	15,469	16,227	15,469	16,227	15,469	16,227	15,469	16,227
38	Manufacturing industries.....	102,452	103,497	106,385	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359
MARKET CATEGORIES																					
31	Home goods, apparel and consumer staples.....	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128	4,128
32	Equipment and defense products, except automobiles.....	196,920	198,084	209,774	215,766	205,438	211,549	211,549	207,665	209,688	196,471	201,232	202,316	202,316	202,316	202,316	202,316	202,316	202,316	202,316	202,316
33	Construction materials, supplies, and other materials, supplies, and intermediate products.....	15,488	16,227	15,469	16,227	15,469	16,227	15,469	16,227	15,469	16,227	15,469	16,227	15,469	16,227	15,469	16,227	15,469	16,227	15,469	16,227
34	Supplementary series ²	102,452	103,497	106,385	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359	106,359
SUPPLEMENTARY SERIES²																					
31	Household durable goods, industries.....	2,484	2,475	2,492	2,475	2,492	2,475	2,492	2,475	2,492	2,475	2,492	2,475	2,492	2,475	2,492	2,475	2,492	2,475	2,492	2,475
32	Capital goods industries.....	226,080	226,555	226,601	226,555	226,601	226,555	226,601	226,555	226,601	226,555	226,601	226,555	226,601	226,555	226,601	226,555	226,601	226,555	226,601	226,555
33	Nondefense.....	135,065	136,062	137,139	136,062	137,139	136,062	137,139	136,062	137,139	136,062	137,139	136,062	137,139	136,062	137,139	136,062	137,139	136,062	137,139	136,062
34	Defense.....	91,515	90,493	90,466	90,493	90,466	90,493	90,466	90,493	90,466	90,493	90,466	90,493	90,466	90,493	90,466	90,493	90,466	90,493	90,466	90,493
INDUSTRY GROUPS AND INDUSTRIES																					
31	Durable goods industries	1,704	1,873	1,955	2,124	2,257	2,492	2,498	2,740	2,888	2,940	3,101	3,185	3,259	3,334	3,408	3,482	3,556	3,630	3,704	3,778
32	Stone, clay, and glass.....	21,594	22,518	22,518	22,518	22,518	22,518	22,518	22,518	22,518	22,518	22,518	22,518	22,518	22,518	22,518	22,518	22,518	22,518	22,518	22,518
33	Primary metals.....	12,620	13,253	13,253	13,253	13,253	13,253	13,253	13,253	13,253	13,253	13,253	13,253	13,253	13,253	13,253	13,253	13,253	13,253	13,253	13,253
34	Nonferrous and other primary metal products.....	6,562	6,718	6,934	7,053	7,053	7,053	7,053	7,053	7,053	7,053	7,053	7,053	7,053	7,053	7,053	7,053	7,053	7,053	7,053	7,053
35	Primary metal products.....	27,185	28,302	28,302	28,302	28,302	28,302	28,302	28,302	28,302	28,302	28,302	28,302	28,302	28,302	28,302	28,302	28,302	28,302	28,302	28,302
36	Machinery, except electrical.....	18,065	18,353	18,353	18,353	18,353	18,353	18,353	18,353	18,353	18,353	18,353	18,353	18,353	18,353	18,353	18,353	18,353	18,353	18,353	18,353
37	Electrical, electronic, and communication equipment.....	8,424	9,365	9,365	9,365	9,365	9,365	9,365	9,365	9,365	9,365	9,365	9,365	9,365	9,365	9,365	9,365	9,365	9,365	9,365	9,365
38	Material-handling equipment.....	1,657	1,938	1,938	1,938	1,938	1,938	1,938	1,938	1,938	1,938	1,938	1,938	1,938	1,938	1,938	1,938	1,938	1,938	1,938	1,938
39	Working machinery.....	6,197	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378
40	General industrial machinery.....	6,197	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378	6,378

See footnotes at end of table.

See footnotes at end of table.

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent changes							Revisions ²		
	Month-to-month			Average monthly rates of change ¹				Year ago April 1981	Average monthly	
	March- April 1982	Feb.- March 1982	Jan.- Feb. 1982	First quarter 1982	Fourth quarter 1981	Third quarter 1981	May 1981 through April 1982		April 1981 through March 1982	April 1977- 1981
Shipments:										
All manufacturing industries.....	-0.5	-0.7	+1.8	-0.6	-1.5	-0.6	-0.5	0.0	0.2	0.1
Durable goods industries.....	-0.2	-0.6	+2.9	-0.8	-2.0	-1.0	-0.8	0.3	0.4	0.2
Nondurable goods industries.....	-0.9	-0.9	+0.7	-0.7	-1.0	-0.1	-0.3	0.2	0.3	0.3
Inventories:										
All manufacturing industries.....	-0.3	-0.5	+0.4	-0.1	-0.1	+0.8	+0.2	0.1	0.1	0.2
New orders:										
All manufacturing industries.....	-2.3	+0.3	+1.3	-0.1	-1.8	-0.5	-0.7	0.3	0.3	0.2
Durable goods industries.....	-3.9	+1.0	+2.5	+0.1	-2.6	-0.8	-1.1	0.5	0.7	0.1
Nondurable goods industries.....	-0.6	-0.5	+0.2	0.4	-1.0	-0.2	-0.3	0.3	0.3	0.3
Unfilled orders:										
Durable goods industries.....	-0.7	+0.3	-0.2	-0.1	-0.8	+0.3	-0.2	0.2	0.1	0.1

- Represents zero.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	April 1982 ^D	March 1982 ^F	Feb. 1982	Jan. 1982	April 1982 ^D	March 1982 ^F	Feb. 1982	Jan. 1982
All manufacturing industries.....	1.74	1.74	1.73	1.76	3.84	3.78	3.76	3.87
Durable goods industries.....	2.32	2.31	2.31	2.38	4.66	4.61	4.56	4.68
Stone, clay, and glass products.....	1.77	1.78	1.79	1.75	0.52	0.54	0.59	0.60
Primary metals.....	2.76	2.87	2.99	2.39	3.44	2.57	2.43	2.39
Fabricated metals.....	2.10	2.05	2.14	2.25	3.12	3.15	3.25	3.41
Machinery, except electrical.....	2.74	2.57	2.56	2.63	4.72	4.51	4.62	4.87
Electrical machinery.....	2.24	2.28	2.31	2.37	4.72	4.68	4.61	4.70
Transportation equipment.....	2.21	2.29	2.38	2.58	11.81	11.52	11.67	12.51
Instruments and related products.....	2.44	2.34	2.37	2.45	1.87	1.79	1.79	1.82
Nondurable goods industries.....	1.16	1.16	1.15	1.15	0.59	0.56	0.58	0.62
Food and kindred products.....	0.96	0.95	0.94	0.96	(X)	(X)	(X)	(X)
Tobacco products.....	3.81	3.86	3.62	3.67	(X)	(X)	(X)	(X)
Textile mill products.....	1.60	1.52	1.60	1.70	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.39	1.39	1.37	1.34	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.36	1.35	1.35	1.36	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.59	0.66	0.64	0.58	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.58	1.62	1.55	1.48	(X)	(X)	(X)	(X)

(NA) Not available. ^DPreliminary. ^FRevised. (X) Not applicable.¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

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CURRENT INDUSTRIAL REPORTS

M 3-1(82)-5



Manufacturers' Shipments, Inventories, and Orders

MAY 1982

U.S. Department of Commerce
BUREAU OF THE CENSUS

M3-1(82)-5
For Wire Transmission 2:30 P.M. E.D.T. Wednesday, June 30, 1982

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in May increased \$2.4 billion or 1.5 percent from April to \$158.1 billion the Department of Commerce, Bureau of the Census reported today. Shipments of manufactured goods in May were up \$4.1 billion or 2.6 percent to \$161.2 billion. This is the largest one month increase in shipments since October 1980 and only the second increase since last June. Both the shipments and new orders in May were influenced by an increase in the value of petroleum products shipments of \$1.1 billion or 7.8 percent. For this industry new orders are considered equal to shipments for the month.

Unfilled orders for manufactured goods at the end of May were valued at \$314.8 billion, down 1.0 percent from April. Except for a 0.2 percent increase in March, the backlog of orders has been declining since the August peak of \$328.8 billion. The book value of manufacturers' inventories decreased \$2.7 billion or 1.0 percent in May to \$271.5 billion. This is the 5th decline in the last six months in inventories.

New orders for durable goods in May were up \$0.5 billion or 0.6 percent to \$78.1 billion. All of the major industries except machinery showed increases. New orders for primary metals were up 3.7 percent following a 4.0 percent increase in April. Prior to that primary metals orders had declined eight consecutive months. New orders for nonelectrical machinery were down \$1.2 billion or 8.0 percent to \$14.0 billion with most of the decline coming from the computer industry. New orders for electrical machinery were down \$0.9 billion or 6.9 percent to \$11.5 billion with a large decline in orders for communication equipment offsetting increases in the other industries.

Within the capital goods sector, new orders were down in both the defense and nondefense categories. New orders for nondefense capital goods were valued at \$19.7 billion, down \$1.7 billion or 7.9 percent from April. New orders for defense capital goods declined for the 3d consecutive month, following large increases in November through February. The May decline was \$0.7 billion or 12.4 percent to \$5.1 billion.

The \$4.1 billion increase in manufacturers' shipments in May was split between the durable and nondurable goods sectors. Durable goods shipments were up \$2.1 billion or 2.7 percent to \$81.1 billion, while nondurable goods shipments were up \$2.0

billion or 2.5 percent to \$80.1 billion. Within the durable goods category, the largest increase was in transportation equipment where shipments were valued at \$18.9 billion, up \$1.1 billion from April. Although the aircraft industry accounted for over half the increase, shipments by the motor vehicle industry continued to improve, showing its 4th consecutive monthly gain. Shipments of primary metals were down \$0.3 billion or 3.3 percent to \$8.7 billion with the steel industry causing the total decline.

Within the nondurable goods industries, the petroleum industry reported a \$1.1 billion or 7.8 percent increase in value of shipments following declines in 5 of the last 7 months. Chemical shipments were up \$0.3 billion or 2.3 percent while paper product shipments were down \$0.2 billion or 3.4 percent.

Declines in the orders backlogs of manufacturers was widespread. Unfilled orders for nonelectrical machinery were down \$1.9 billion, transportation equipment \$0.7 billion, fabricated metals products \$0.5 billion and primary metals products \$0.3 billion. The only significant increase in backlog was in the all other durable goods category which increased \$0.5 billion or 8.4 percent.

The decline in the book value of manufacturers' inventories was concentrated in the nondurable goods sector. There inventories were down \$1.6 billion or 1.8 percent, over half of which was attributable to the petroleum products industry. Inventories of durable goods manufacturers declined \$1.1 billion or 0.6 percent to \$182.3 billion. The inventory to shipments ratio for May was 1.68, down from 1.74 in April.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for June is scheduled for release on July 22, 1982, and full report is scheduled for release on August 2, 1982.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURES' SHIPMENTS BY INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(billions of dollars)

SIC	Industry	Seasonally adjusted										Not seasonally adjusted									
		Yearly					Quarterly					Monthly									
		1967					1967					1967									
		May	Apr.	Mar.	Feb.	1967	1967	1967	1967	1967	1967	May	Apr.	Mar.	Feb.	1967	1967	1967	1967	1967	1967
		1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967	1967
	TOTALS																				
	All manufacturing industries.....	161,249	157,179	1,48,642	1,48,642	1,48,642	1,48,642	1,48,642	1,48,642	1,48,642	1,48,642	1,48,642	1,48,642	1,48,642	1,48,642	1,48,642	1,48,642	1,48,642	1,48,642	1,48,642	1,48,642
	Manufacturing industries excluding transportation.....	142,337	139,407	141,342	141,342	141,342	141,342	141,342	141,342	141,342	141,342	141,342	141,342	141,342	141,342	141,342	141,342	141,342	141,342	141,342	141,342
	Manufacturing industries with unfilled orders.....	84,298	82,317	84,737	84,737	84,737	84,737	84,737	84,737	84,737	84,737	84,737	84,737	84,737	84,737	84,737	84,737	84,737	84,737	84,737	84,737
	Durable goods industries.....	81,134	79,020	79,454	79,454	79,454	79,454	79,454	79,454	79,454	79,454	79,454	79,454	79,454	79,454	79,454	79,454	79,454	79,454	79,454	79,454
	Durable goods with unfilled orders.....	67,707	65,813	67,334	67,334	67,334	67,334	67,334	67,334	67,334	67,334	67,334	67,334	67,334	67,334	67,334	67,334	67,334	67,334	67,334	67,334
	Nondurable goods industries.....	87,115	88,158	79,188	79,188	79,188	79,188	79,188	79,188	79,188	79,188	79,188	79,188	79,188	79,188	79,188	79,188	79,188	79,188	79,188	79,188
	Nondurable goods with unfilled orders.....	16,537	17,403	17,403	17,403	17,403	17,403	17,403	17,403	17,403	17,403	17,403	17,403	17,403	17,403	17,403	17,403	17,403	17,403	17,403	17,403
	MARKET CATEGORIES																				
	Home goods and apparel.....	11,602	11,609	12,069	12,069	12,069	12,069	12,069	12,069	12,069	12,069	12,069	12,069	12,069	12,069	12,069	12,069	12,069	12,069	12,069	12,069
	Consumer staples.....	29,521	29,338	29,438	29,438	29,438	29,438	29,438	29,438	29,438	29,438	29,438	29,438	29,438	29,438	29,438	29,438	29,438	29,438	29,438	29,438
	Equipment and defense products, except automotive.....	25,071	26,039	25,699	25,699	25,699	25,699	25,699	25,699	25,699	25,699	25,699	25,699	25,699	25,699	25,699	25,699	25,699	25,699	25,699	25,699
	Automotive equipment.....	13,531	13,186	11,869	11,869	11,869	11,869	11,869	11,869	11,869	11,869	11,869	11,869	11,869	11,869	11,869	11,869	11,869	11,869	11,869	11,869
	Intermediate products, except other materials, supplies, and intermediate products.....	11,765	11,279	11,581	11,581	11,581	11,581	11,581	11,581	11,581	11,581	11,581	11,581	11,581	11,581	11,581	11,581	11,581	11,581	11,581	11,581
	Supplementary series?	69,779	67,856	67,746	67,746	67,746	67,746	67,746	67,746	67,746	67,746	67,746	67,746	67,746	67,746	67,746	67,746	67,746	67,746	67,746	67,746
	INDUSTRY GROUPS AND INDUSTRIES																				
	Durable goods industries:																				
	Household durable goods industries.....	5,044	5,185	5,260	5,260	5,260	5,260	5,260	5,260	5,260	5,260	5,260	5,260	5,260	5,260	5,260	5,260	5,260	5,260	5,260	5,260
	Capital goods industries.....	27,729	26,328	28,036	28,036	28,036	28,036	28,036	28,036	28,036	28,036	28,036	28,036	28,036	28,036	28,036	28,036	28,036	28,036	28,036	28,036
	Nondefense.....	22,785	21,783	23,141	23,141	23,141	23,141	23,141	23,141	23,141	23,141	23,141	23,141	23,141	23,141	23,141	23,141	23,141	23,141	23,141	23,141
	Defense.....	4,944	4,545	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895
	Primary metals.....	3,979	4,013	4,339	4,339	4,339	4,339	4,339	4,339	4,339	4,339	4,339	4,339	4,339	4,339	4,339	4,339	4,339	4,339	4,339	4,339
	Nonferrous and other primary products.....	3,810	3,817	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581
	Fabricated metal products.....	10,008	9,684	9,783	9,783	9,783	9,783	9,783	9,783	9,783	9,783	9,783	9,783	9,783	9,783	9,783	9,783	9,783	9,783	9,783	9,783
	Metal cans, barrels, and drums.....	777	815	812	812	812	812	812	812	812	812	812	812	812	812	812	812	812	812	812	812
	Machinery, except electrical.....	15,907	15,430	16,429	16,429	16,429	16,429	16,429	16,429	16,429	16,429	16,429	16,429	16,429	16,429	16,429	16,429	16,429	16,429	16,429	16,429
	Electrical, electronic, and optical machinery.....	1,265	1,311	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239	1,239
	Pharmaceutical machinery.....	967	967	967	967	967	967	967	967	967	967	967	967	967	967	967	967	967	967	967	967
	Construction, mining, and material-handling equipment.....	2,971	2,935	3,119	3,119	3,119	3,119	3,119	3,119	3,119	3,119	3,119	3,119	3,119	3,119	3,119	3,119	3,119	3,119	3,119	3,119
	Metallurgical machinery.....	1,867	1,873	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906	906
	General industrial machinery.....	1,261	1,240	1,352	1,352	1,352	1,352	1,352	1,352	1,352	1,352	1,352	1,352	1,352	1,352	1,352	1,352	1,352	1,352	1,352	1,352

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)															
		Seasonally adjusted					Not seasonally adjusted ¹										
		Monthly					Monthly										
		May 1982 ²	Apr. 1982 ²	Mar. 1982	Feb. 1982	I 1982	II 1981	III 1981	May 1982 ²	Apr. 1982 ²	Mar. 1982	Feb. 1982	Apr. 1981	Mar. 1981	Feb. 1981	Year-to-date	
INDUSTRY GROUPS AND INDUSTRIES--Continued																	
Durable goods and Industries--Continued																	
36	Electrical machinery.....	11,647	11,476	11,422	11,300	33,788	33,854	35,062	11,404	11,441	11,555	11,548	11,338	11,301	11,812	11,293	56,624
361,2	Electrical transmission and distribution apparatus.....	1,832	1,758	1,832	1,769	5,383	5,658	5,901	1,852	1,783	1,936	1,900	1,937	1,900	2,035	1,903	9,414
363	Household appliances.....	1,009	1,019	992	989	2,975	3,031	3,291	1,004	1,008	1,060	998	1,115	1,114	1,154	1,140	5,559
365	Radio and TV.....	869	859	931	805	2,552	2,486	2,785	709	725	759	812	782	860	901	919	4,817
366	Electronic components.....	2,470	2,438	2,345	2,350	7,030	7,018	7,152	2,368	2,366	2,432	2,400	2,399	2,356	2,493	2,472	17,004
37	Transportation equipment.....	18,912	17,732	17,100	16,499	48,731	51,428	57,354	19,438	18,585	18,356	16,437	20,067	19,872	20,532	17,706	88,107
371	Motor vehicles and parts.....	11,868	11,623	11,341	9,958	29,312	30,722	36,731	12,655	12,285	11,829	10,255	13,045	12,664	12,912	11,236	59,815
372,6	Parts.....	4,996	4,335	4,463	4,363	13,366	14,747	14,218	5,081	4,380	4,945	4,673	4,820	4,891	5,325	4,354	23,128
373	Shipbuilding and military tank vehicles.....	1,340	1,319	1,349	1,349	3,680	3,674	3,616	1,370	1,306	1,335	1,260	1,159	1,178	1,151	1,068	6,051
38	Instruments and related products.....	4,292	3,957	4,142	4,103	12,165	12,628	12,812	4,229	3,966	4,135	4,007	4,148	3,979	4,327	4,027	20,011
381-4	Scientific and engineering instruments.....	2,424	2,284	2,532	2,400	7,209	7,508	7,598	2,491	2,295	2,451	2,407	2,399	2,356	2,591	2,335	11,890
24	Photographic goods.....	1,596	1,435	1,334	1,448	4,195	4,282	4,442	1,344	1,396	1,396	1,348	1,451	1,324	1,411	1,413	6,781
25	All other durable goods	7,811	7,948	7,902	8,005	23,557	23,720	24,338	7,439	7,993	8,447	7,721	8,521	8,762	8,534	8,177	38,313
25	Industries.....																-0.963
Non-durable goods industries																	
20	Food and kindred products.....	22,139	21,958	22,028	22,421	66,363	66,866	67,512	21,989	21,604	22,927	22,591	21,749	22,312	22,860	22,348	110,147
201	Meat products.....	5,635	5,421	5,275	5,308	15,978	16,407	17,332	5,765	5,389	5,333	5,372	5,353	5,213	5,182	5,293	26,220
202	Beverages.....	3,198	3,297	3,133	3,269	9,480	9,583	8,948	3,314	3,324	3,130	2,890	3,121	3,075	2,848	2,571	15,336
203-6	Fats and oils.....	1,516	1,567	1,670	1,614	4,916	5,185	5,375	1,477	1,578	1,727	1,714	1,668	1,812	1,844	1,762	8,856
207	All other foods.....	8,628	8,498	8,764	9,088	26,583	25,446	26,599	8,286	8,161	9,135	9,412	8,477	8,933	8,741	9,344	5,628
21	Tobacco products.....	3,992	3,898	4,151	4,029	11,977	11,870	13,337	4,046	3,979	4,463	4,046	4,225	4,108	4,158	4,108	31,005
22	Textile mill products.....	6,130	6,343	6,490	6,520	19,375	19,476	19,476	6,246	6,384	6,761	6,622	6,553	6,587	6,799	6,679	32,565
26	Paper and allied products.....	2,616	2,694	2,827	2,822	8,496	8,548	8,674	2,704	2,759	2,993	2,872	2,951	2,899	3,006	2,968	13,484
261-3	Paperboard containers.....	1,526	1,538	1,605	1,616	4,793	4,865	4,999	1,575	1,578	1,621	1,629	1,663	1,670	1,695	1,664	8,177
264	Printing, publishing, and communications.....	1,090	1,156	1,222	1,206	3,703	3,683	3,675	1,119	1,181	1,030	1,243	1,288	1,229	1,300	1,216	10,109
28	Chemical and allied products.....	15,119	14,783	15,206	15,241	45,526	46,175	46,486	15,603	15,601	16,403	15,570	15,413	16,407	15,420	17,475	76,813
281,6	Industrial chemicals, except pigments.....	4,839	4,671	4,813	4,993	14,712	15,544	16,229	4,999	5,031	5,362	5,203	5,559	5,707	6,116	5,604	29,304
283,4	Drugs, soap, and toiletries.....	4,157	4,224	4,170	4,072	12,067	11,857	11,382	4,117	4,117	4,445	4,133	3,400	3,491	4,031	3,952	20,214
285	Plastics, synthetic.....	15,742	14,602	15,699	14,600	43,061	42,851	48,513	15,579	14,379	13,793	14,397	16,236	15,723	16,109	17,091	82,023
30	Rubber and plastics products.....	3,557	3,513	3,396	3,569	10,618	11,285	12,056	3,618	3,669	3,622	3,678	3,915	4,133	4,017	3,869	19,558
23	All other non-durable goods	12,254	11,860	12,770	12,640	37,274	36,688	37,392	11,699	11,381	12,707	12,702	11,430	11,708	11,854	11,492	59,475
31	Industries.....																
Preliminary. ¹ Revised.																	

Preliminary.

¹Revised.

²Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware, household appliances, radio and TV, electronic components, and personal goods.

Non-durable goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Non-durable goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Non-durable goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Non-durable goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

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Non-durable goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Non-durable goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

TABLE 2. VALUE OF MANUFACTURES' NEW ORDERS FOR INDUSTRIES GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(Billions of dollars)

SIC	Industry	Seasonally adjusted					Not seasonally adjusted ¹													
		Monthly					Quarterly													
		May 1987 ^a	Apr. 1987 ^a	Mar. 1987 ^a	Feb. 1987 ^a	I 1987 ^a	II 1987 ^a	III 1987 ^a	Last 6 months				Last 6 months & year ago				Year-to-date			
									May 1987 ^a	Apr. 1987 ^a	Mar. 1987 ^a	Feb. 1987 ^a	May 1981	Apr. 1981	Mar. 1981	Feb. 1981	1987	1981	1981	
	TOTALS																			
	All manufacturing industries.....	138,071	159,715	158,467	474,291	476,387	511,118	157,303	158,888	167,495	160,559	171,826	177,003	169,653	793,023	800,311				
	Manufacturing industries excluding transportation.....	139,824	138,162	139,432	418,749	431,117	441,007	138,331	138,375	147,339	142,444	151,821	159,264	151,884	700,738	764,255				
	Manufacturing industries with unfilled orders.....	81,120	80,903	85,697	291,799	294,747	271,947	79,696	92,848	94,303	83,104	88,112	94,984	40,118	417,168	448,533				
	Durable goods industries.....	78,097	77,630	80,401	236,986	237,524	243,324	75,827	86,269	88,136	80,127	87,680	90,842	43,332	398,021	438,304				
	Durable goods with unfilled orders.....	64,670	64,445	67,125	201,362	194,776	202,070	63,336	66,367	72,534	68,403	71,602	74,127	77,711	394,747	406,094				
	Nondurable goods industries.....	79,974	78,085	78,881	237,315	240,863	267,794	76,776	78,289	81,769	80,144	81,486	83,771	82,539	335,002	350,009				
	Nondurable goods with unfilled orders.....	16,450	16,438	17,286	50,423	49,849	51,211	18,310	18,451	17,766	18,701	17,128	17,123	17,036	83,095	83,784				
	Industries without unfilled orders.....	63,524	61,627	61,485	186,787	140,404	149,917	63,496	61,838	64,030	63,538	66,548	66,548	65,654	311,907	302,222				
	MARKET CATEGORIES																			
	Home goods and apparel.....	12,403	11,519	12,420	35,480	36,123	37,002	11,840	11,442	12,846	12,031	11,484	12,133	12,771	57,895	53,315				
	Consumer staples.....	29,315	29,310	29,549	88,154	87,695	87,400	29,119	28,871	30,395	29,746	27,802	29,624	29,266	124,952	141,358				
	Equipment and defense products, except automotive.....	21,673	24,732	26,614	80,789	75,858	74,259	21,493	23,374	27,714	27,348	26,863	28,440	28,344	127,276	130,010				
	Automotive equipment.....	13,210	12,803	11,847	33,466	33,466	42,166	13,981	13,580	13,418	13,721	13,664	14,689	14,636	67,339	67,339				
	Construction materials, supplies, and intermediate products.....	11,446	10,741	11,909	33,687	34,302	37,117	11,896	11,189	12,037	10,377	13,234	13,346	13,281	54,609	63,038				
	Other materials, supplies, and intermediate products.....	69,824	66,610	67,058	202,441	212,983	227,404	69,324	68,132	71,340	69,949	76,189	76,734	78,630	345,832	381,233				
	SUPPLEMENTARY SERIES ²																			
	Household durable goods indus- tries.....	5,839	5,244	5,617	15,552	14,514	16,150	5,767	5,379	5,939	5,100	4,981	5,636	5,789	26,844	26,844				
	Capital goods industries.....	24,879	27,304	29,093	79,120	87,563	82,041	23,443	27,800	30,439	29,443	27,965	32,477	32,477	139,399	139,399				
	Nondefense.....	19,742	21,443	22,089	64,274	67,327	71,952	18,688	21,498	23,317	22,460	22,460	24,385	24,385	120,280	120,280				
	Defense.....	5,137	5,861	7,924	23,288	16,714	17,795	4,755	6,302	7,623	7,593	5,106	4,320	4,580	33,125	33,125				
	INDUSTRY GROUPS AND INDUSTRIES																			
	Durable goods industries:																			
32	Stone, clay, and glass.....	3,899	3,634	3,671	11,071	11,601	12,110	3,973	3,752	3,771	3,485	4,295	4,257	4,233	3,944	18,128	20,343			
33	Primary metals.....	8,367	8,072	7,763	25,580	25,440	35,440	8,358	8,531	8,491	9,551	11,802	12,500	13,401	13,062	44,886	61,670			
331	Blast furnaces, steel mills, and ferroalloy plants.....	3,023	3,672	3,643	12,049	15,180	18,540	3,725	3,943	4,328	4,758	5,966	6,790	7,018	6,874	21,369	32,148			
332	Nonferrous and other primary metals.....	3,718	3,682	3,365	11,024	11,878	13,856	3,776	3,817	3,847	3,956	4,673	4,622	5,204	5,142	19,347	24,008			
34	Fabricated metal products.....	9,472	9,478	9,555	28,090	27,814	30,759	9,106	9,106	9,391	9,391	10,733	10,733	10,733	10,733	49,386	49,386			
35	Machinery, except electrical.....	13,988	15,204	14,440	44,552	51,061	51,342	13,537	15,317	15,651	16,125	17,826	18,198	17,256	76,927	86,718				
351	Engines and turbines.....	1,408	1,044	997	3,590	4,396	4,343	1,368	923	1,201	1,485	1,241	1,428	1,431	1,214	6,009	6,977			
352	Construction, mining, and material-handling equipment.....	2,317	2,056	2,041	8,273	9,955	10,520	2,262	2,267	2,721	3,087	3,440	3,999	3,707	3,662	13,180	18,326			
353	Merchandise repair and maintenance.....	1,556	1,583	1,578	4,971	5,860	6,464	1,571	1,580	1,767	1,987	2,264	2,464	2,464	2,264	7,481	9,281			
354	General industrial machinery.....	1,247	1,043	1,268	3,977	4,301	4,504	1,197	1,087	1,306	1,402	1,568	1,621	1,381	6,343	7,481				

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(Millions of dollars)

SIC	Industry	Seasonally adjusted					Not seasonally adjusted										Year-to-date	
		Monthly					Quarterly					Monthly					Year-to-date	
		May 1982 p	Apr. 1982*	Mar. 1982*	Feb. 1982	I 1982*	IV 1981	III 1981	May 1982 p	Apr. 1982*	Mar. 1982*	Feb. 1982	May 1981	Apr. 1981	Mar. 1981	Feb. 1981	Year-to-date	
	INDUSTRY GROUPS AND INDUSTRIES--																	
	Continued																	
	Durable goods industries--																	
	Continued																	
36	Electrical machinery.....	11,548	12,405	12,872	11,237	35,715	33,893	36,462	11,390	12,245	13,435	12,163	11,570	11,825	12,231	12,047	60,652	58,885
361,2	Electrical machinery.....																	
	Electrical transmission and																	
	distribution equipment.....	1,856	1,503	1,760	1,623	5,213	5,400	5,937	1,788	1,673	1,882	1,837	2,059	1,930	2,114	2,039	8,977	10,091
363	Household appliances.....	1,026	1,016	1,012	949	2,957	2,981	3,249	1,020	1,005	1,074	979	1,124	1,153	1,168	1,185	4,969	5,656
365	Radio and TV.....	3,045	2,711	2,738	2,746	8,254	8,258	8,103	3,891	3,891	3,891	3,891	3,891	3,891	3,891	3,891	12,037	12,037
366	Electronic components.....	2,705	2,513	2,227	2,452	7,049	7,262	6,959	2,607	2,671	2,474	2,681	2,458	2,688	2,429	2,577	12,854	12,266
367	Transportation equipment.....	18,247	17,553	19,440	19,053	55,452	47,280	59,911	17,972	19,013	20,566	18,007	19,960	20,105	20,758	17,758	92,285	96,059
372,6	Aircraft, missiles, and																	
	parts.....	4,806	4,525	7,768	7,166	20,719	12,055	16,839	4,126	5,090	6,916	6,027	5,160	4,281	5,576	4,105	28,251	34,517
3731	Ships and military																	
	products.....	1,203	1,183	653	1,410	3,532	2,558	3,966	859	1,390	1,133	1,199	816	2,185	1,239	1,384	5,906	6,876
3795	Instruments and related																	
38	products.....	4,316	3,995	4,181	4,334	12,408	12,722	12,822	4,182	3,974	4,495	4,192	4,165	3,891	4,376	4,058	20,360	20,158
24	All other durable goods																	
25	industries.....	8,260	7,975	8,386	8,025	24,198	23,513	24,238	8,565	8,361	8,806	7,798	8,580	9,111	8,830	8,440	39,691	42,130

Preliminary. Revised.

*Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:
Household durable goods industries--Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances, radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producer's capital goods and the defense products (old series) categories.
Nondefense products--Machinery, except electrical (excluding farm machinery and machine shops); electrical machinery (excluding household appliances, radio and TV, and electronic components); and nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.
The data are comparable to those published annually in the Q4-17. Shipments to Federal Government agencies (formerly Shipments of In-process-oriented Industries), for the specified industries.

TABLE 3. VALUE OF MANUFACTURERS' INFLATED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	Seasonally adjusted												Not seasonally adjusted																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		Monthly				Quarterly				Last 4 months				Monthly				Last 4 months a year ago																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		1967				1968				1969				1970				1971				1972																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
TOTALS		114,832	118,012	119,479	118,553	118,665	118,614	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	118,418	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See footnotes at end of table.

Table 3. VALUE OF MANUFACTURES' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(Billions of dollars)

SIC	Industry group	Seasonally adjusted				Quarterly				Not seasonally adjusted ^a							
		Monthly								Monthly							
		May 1982 ^b	Apr. 1982 ^c	Mar. 1982 ^c	Feb. 1982	IV 1981	III 1981	II 1981	I 1981	IV 1980	Mar. 1982 ^c	Apr. 1982 ^c	May 1982 ^c	Jun. 1982 ^c	Jul. 1982 ^c	Aug. 1982 ^c	Sep. 1982 ^c
36	INDUSTRY GROUP AND INDUSTRIES--Continued																
361,2	Durable goods industries--Continued	54,315	54,414	53,485	52,037	51,563	51,526	50,124	48,494	47,225	54,769	54,782	54,978	55,495	49,637	49,403	48,878
	Electrical machinery.....																
	Transmission and distribution equipment and apparatus.....	7,769	7,746	8,001	8,073	8,172	8,439	8,382	8,361	7,967	7,837	7,901	8,011	8,065	8,522	8,400	8,371
363	Household appliances.....	334	317	320	301	339	390	433	415	411	365	324	365	404	417	416	417
365	Radio and TV.....	508	512	430	423	468	697	378	487	346	465	264	699	618	115	349	369
366	Communication equipment.....	31,965	32,501	31,304	29,710	29,180	28,823	27,542	26,345	25,427	32,373	32,585	31,740	30,745	27,117	26,573	26,883
367	Electronic components.....	12,613	12,979	12,564	12,372	12,286	12,042	12,207	11,733	12,034	17,702	17,552	17,290	17,247	12,276	12,142	11,809
37	Transportation equipment.....	119,738	120,624	120,646	118,307	113,927	116,073	115,515	116,198	111,043	119,545	121,411	120,984	119,375	116,679	116,787	116,556
372,6	Aircraft and parts.....	97,786	97,975	97,786	94,702	90,435	91,126	90,504	91,299	88,371	97,508	98,463	97,754	95,783	91,055	90,716	91,337
3731	Shipbuilding and military tank vehicles.....	16,120	16,258	16,239	16,905	16,387	17,303	16,953	16,478	16,087	16,250	16,761	16,537	16,740	17,399	17,342	16,735
3745	Instruments and related	7,466	7,441	7,402	7,365	7,160	7,067	7,036	7,012	6,987	7,464	7,511	7,443	7,483	6,480	6,963	7,051
38	All other durable goods	5,765	5,316	5,289	4,835	4,646	4,853	4,955	4,915	5,267	6,145	5,519	5,150	4,591	5,187	5,128	4,774
25	Non-durable goods industries.....																
29	Chemical and allied products.....																

^a Preliminary.

^b Revised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are groupings of the separate industry categories as follows:

361,2 Durable goods industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware, household appliances, radio and TV, ophthalmic goods, watches, and clocks and accessories, personal goods.
363 Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.
365 Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.
366 Defense products--Based on defense appropriations and defense contractors in the following categories: aircraft and aircraft parts, and shipbuilding.
367 The data are comparable to those published annually in the M-177, Shipments to Federal Government Agencies (formerly Shipments of Government Industries), for the specified industries.

Table 4. VALUE OF MANUFACTURES' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)													
		Seasonally adjusted						Not seasonally adjusted							
		Monthly		Quarterly		Last 4 months		Monthly		Last 4 months		Last 4 months a year ago			
		May 1982P	Apr. 1982P	Mar. 1982	Feb. 1982	IV 1981	III 1981	II 1981	I 1981	IV 1980	May 1982P	Apr. 1982P	Mar. 1981	Feb. 1981	
36	INDUSTRY GROUPS AND INDUSTRIES--Continued	25,485	25,872	25,992	26,150	26,325	26,517	25,689	25,057	24,383	26,137	26,146	26,041	25,946	24,990
361.2	Durable goods industries--Continued														
	Electrical machinery.....														
	Electrical transmission and distribution apparatus.....	4,329	4,430	4,459	4,484	4,528	4,744	4,488	4,263	4,463	4,518	4,472	4,481	4,475	4,269
363	Household appliances.....	1,850	1,881	1,908	1,926	1,999	2,021	1,934	1,905	1,874	2,008	1,980	1,930	2,024	1,892
365	Radio and TV.....	1,618	1,720	1,767	1,797	1,782	1,864	1,492	1,444	1,311	1,717	1,720	1,725	1,731	1,466
366	Communication equipment.....	8,941	9,033	9,024	9,021	8,911	8,859	8,886	8,774	8,630	9,039	9,088	9,121	9,013	8,901
367	Electronic components.....	4,721	4,716	4,749	4,732	4,856	4,874	4,795	4,560	4,557	4,778	4,768	4,743	4,826	4,703
37	Transportation equipment.....	39,531	39,716	39,162	39,221	39,175	39,424	38,628	38,111	36,810	39,587	39,504	39,598	38,457	38,003
371	Motor vehicles and parts.....	8,243	8,461	8,460	8,555	8,970	9,316	9,275	9,605	9,694	8,471	8,406	8,508	9,293	9,769
372.6	Aircraft, missiles, and parts	27,371	26,714	25,700	26,742	25,750	25,468	24,820	24,001	22,918	27,734	27,626	26,958	24,566	24,197
373	Shipbuilding and military tank vehicles.....	1,870	2,069	2,138	2,402	2,462	2,596	2,636	2,612	2,265	1,871	2,035	2,110	2,292	2,357
3795	Instrument and related products.....	9,831	9,848	9,712	9,707	9,765	9,738	9,603	9,380	9,281	10,042	9,996	9,805	9,712	9,434
381-4	Scientific and engineering.....	7,051	7,077	6,997	6,967	6,940	6,912	6,842	6,593	6,474	7,156	7,147	6,956	6,818	6,471
386	Photographic goods.....	2,327	2,305	2,367	2,346	2,375	2,342	2,247	2,259	2,243	2,420	2,381	2,382	2,358	2,230
24	All other durable goods industries.....	14,026	13,960	14,093	14,120	14,478	14,880	14,508	14,213	14,046	14,147	14,166	14,320	14,383	14,406
39	Non-durable goods industries														
20	Food and kindred products.....	20,818	20,984	21,025	21,082	21,101	21,826	21,862	22,237	22,325	20,043	20,562	21,311	21,276	22,343
201	Meat products.....	2,206	2,250	2,263	2,263	2,203	2,497	2,267	2,272	2,271	2,246	2,313	2,281	2,256	2,289
202	Dairy products.....	1,174	1,174	1,174	1,174	1,174	1,174	1,174	1,174	1,174	1,174	1,174	1,174	1,174	1,174
207	Fats and oils.....	1,518	1,510	1,406	1,491	1,593	1,696	1,668	1,782	2,055	1,463	1,564	1,557	1,586	1,586
207-6.9	All other foods.....	11,743	11,747	11,734	11,821	11,866	12,481	12,456	12,476	12,428	10,921	11,137	11,225	11,765	11,984
21	Tobacco products.....	4,597	4,582	4,391	4,309	4,263	3,966	3,570	3,689	3,507	4,464	4,638	4,558	3,592	3,855
22	Textile mill products.....	6,271	6,258	6,324	6,441	6,688	6,664	6,604	6,518	6,386	6,444	6,444	6,364	6,733	6,667
22-3	Wool and allied products.....	5,920	5,931	5,931	5,931	5,931	5,931	5,931	5,931	5,931	5,931	5,931	5,931	5,931	5,931
26-3	Paper and allied products.....	3,301	3,301	3,301	3,301	3,301	3,301	3,301	3,301	3,301	3,301	3,301	3,301	3,301	3,301
265	Paperboard containers.....	2,361	2,362	2,367	2,362	2,385	2,337	2,295	2,168	1,973	2,413	2,350	2,314	2,252	2,101
266	All other paper containers.....	3,126	3,171	3,294	3,313	3,128	3,059	3,126	3,126	3,126	3,263	3,231	3,182	3,173	3,065
284	Chemicals and allied products.....	20,099	20,531	20,543	20,513	20,438	20,363	20,218	19,488	18,489	20,114	20,751	20,702	19,691	19,573
281.6	Industrial chemicals, except drugs, soap, and toiletries.....	6,637	6,727	6,758	6,743	6,788	6,810	6,981	6,493	6,244	6,637	6,718	6,845	6,716	6,451
283.4	Drugs, soap, and toiletries.....	6,119	6,152	6,228	6,248	6,004	5,867	5,839	5,819	5,612	6,723	6,730	6,186	5,936	5,706
29	Petroleum and coal products.....	7,499	8,436	9,096	9,016	8,680	9,206	9,996	9,885	8,240	7,444	8,129	8,642	9,581	9,777
30	Rubber and plastics products.....	5,520	5,585	5,497	5,487	5,508	5,703	5,634	5,538	5,279	5,608	5,696	5,632	5,706	5,623
27	All other non-durable goods industries.....	15,489	15,516	15,571	15,499	15,713	15,182	14,817	14,656	14,353	16,057	15,767	15,469	15,553	14,233

Preliminary.

Revised.

Inventories and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations, unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radio and TV; optical goods, watches and clocks; and capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components) and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the MA 175, Shipments to Federal Government Agencies (former Shipments of Defense-Ordered Industries 1, for the specified industries).

[illegible]

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent changes							Revisions ²		
	Month-to-month			Average monthly rates of change ¹				Year ago May 1981	Average monthly	
	Apr.- May 1982	Mar.- Apr. 1982	Feb.- Mar. 1982	First quarter 1982	Fourth quarter 1981	Third quarter 1981	Jun. 1981 through May 1982		May 1982 through April 1981	May 1977- 1981
Shipments:										
All manufacturing industries.....	+2.6	-0.8	-0.6	-0.5	-1.5	-0.6	-0.3	0.3	0.3	0.3
Durable goods industries.....	+2.7	-0.5	-0.4	-0.7	-2.0	-1.0	-0.5	0.3	0.4	0.3
Nondurable goods industries.....	+2.5	-1.0	-0.9	-0.4	-1.0	-0.1	-0.1	0.5	0.3	0.6
Inventories:										
All manufacturing industries.....	-1.0	-0.3	-0.5	-0.1	-0.1	+0.8	+0.1	0.0	0.1	0.1
New orders:										
All manufacturing industries.....	+1.5	-2.3	+0.6	0.0	-1.8	-0.5	-0.5	0.4	0.3	0.4
Durable goods industries.....	+0.6	-3.6	+1.6	+0.3	-2.6	-0.8	-0.9	0.4	0.7	0.3
Nondurable goods industries.....	+2.4	-1.0	-0.5	-0.4	-1.0	-0.2	-0.1	0.5	0.4	0.7
Unfilled orders:										
Durable goods industries.....	-1.0	-0.4	+0.3	0.0	-0.8	+0.3	-0.2	0.0	0.1	0.0

- Represents zero.

¹Method of calculations of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	May, 1982 ^P	April 1982 ^T	March 1982 ^T	Feb. 1982	May 1982 ^P	April 1982 ^T	March 1982 ^T	Feb. 1982
All manufacturing industries.....	1.68	1.74	1.74	1.73	3.73	3.86	3.77	3.76
Durable goods industries.....	2.25	2.32	2.31	2.31	4.51	4.68	4.60	4.56
Stone, clay, and glass products.....	1.74	1.79	1.78	1.79	0.53	0.53	0.54	0.59
Primary metals.....	2.79	2.75	2.87	2.59	2.47	2.43	2.57	2.43
Fabricated metals.....	1.99	2.06	2.05	2.14	2.91	3.09	3.15	3.25
Machinery, except electrical.....	2.67	2.76	2.57	2.56	4.54	4.80	4.51	4.62
Electrical machinery.....	2.19	2.25	2.28	2.31	4.66	4.74	4.68	4.61
Transportation equipment.....	2.09	2.23	2.29	2.38	10.86	11.92	11.52	11.67
Instruments and related products.....	2.29	2.49	2.34	2.37	1.74	1.88	1.79	1.79
Nondurable goods industries.....	1.11	1.16	1.16	1.15	0.57	0.58	0.56	0.58
Food and kindred products.....	0.94	0.96	0.95	0.94	(X)	(X)	(X)	(X)
Tobacco products.....	3.89	3.81	3.86	3.62	(X)	(X)	(X)	(X)
Textile mill products.....	1.57	1.61	1.52	1.60	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.46	1.41	1.39	1.37	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.33	1.39	1.35	1.35	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.48	0.58	0.66	0.64	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.55	1.59	1.62	1.55	(X)	(X)	(X)	(X)

(NA) Not available.

^PPreliminary.^TRevised.

(X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

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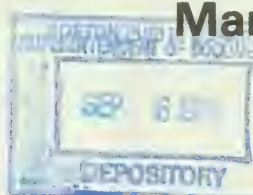
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U.S. Department of Commerce
BUREAU OF THE CENSUS



Manufacturers' Shipments, Inventories, and Orders

JUNE 1982

M3-1 (82)-6

For Wire Transmission 3:00 P.M. E.D.T. Monday, August 2, 1982

(All figures in text below are in seasonally adjusted current dollars.)

The January through June data presented in this report are consistent with the revised data for 1977-1981 released July 19, 1982, by the Department of Commerce, Bureau of the Census. These revisions, published in "Manufacturers' Shipments, Inventories, and Orders: 1977-1981" (M3-1.11), reflect: benchmarking of the shipments and inventory data to the 1979 and 1980 Annual Survey of Manufactures; benchmarking defense shipments to the series MA-175, "Shipments to Federal Government Agencies"; recalculation of new orders estimates which are derived from the estimates of unfilled orders and shipments; and updating of seasonal adjustment factors.

New orders for manufactured goods in June declined \$0.5 billion or 0.3 percent to \$156.8 billion the Department of Commerce, Bureau of the Census reported today. This follows a 1.0 percent increase in May and a 1.0 percent decline in April. Shipments of manufactured products increased in June \$0.1 billion or 0.1 percent to \$160.8 billion following a 2.9 percent increase in May.

The backlog of unfilled orders for manufactured products declined \$4.0 billion or 1.3 percent in June to \$307.7 billion. This is the 11th consecutive decline in unfilled orders since the July 1981 peak of \$328.9 billion.

The book value of manufacturers' inventories decreased \$1.3 billion or 0.5 percent to \$275.1 billion. This is the sixth decline in the last 7 months and the lowest inventory level since the June 1981 level of \$274.6 billion. The inventory to shipments ratio has dropped from 1.81 in January 1982 to 1.71 in June.

New orders for durable goods in June declined \$1.5 billion or 1.9 percent to \$74.7 billion. This follows May and April declines of 1.0 percent and 1.2 percent, respectively. New orders for nonelectrical machinery declined \$1.5 billion or 10.1 percent to \$13.0 billion. Except for a 5.7 percent increase in April, new orders for nonelectrical machinery have been declining since last November at a 3.8 percent average monthly rate. New orders for the nondefense capital goods, which include most of the nonelectrical machinery industries, declined \$1.1 billion or 5.2 percent to \$19.3 billion. New orders for defense capital goods in June increased \$0.6 billion or 12.6 percent to \$5.4 billion following 3 months of declines.

New orders for manufacturers of nondurable goods (where for most industries shipments are considered equal to new orders) increased \$1.0 billion or 1.3 percent to \$82.1 billion in June. Increases were reported by all industries except for

the apparel and printing and publishing industries.

Shipments by producers of durable goods declines \$0.7 billion or 0.8 percent to \$78.7 billion. Shipments declined of \$0.9 billion in machinery products and \$0.3 billion in fabricated metal products in June were only partially offset by increases of \$0.4 billion in motor vehicle and parts and \$0.1 billion in the aircraft and parts sectors of the transportation equipment.

The orders backlog for durable goods manufacturers in June declined \$4.0 billion or 1.3 percent to \$298.4 billion. Over half of the June decline was in the nonelectrical machinery category. Reflecting declines in the machinery industry and the aircraft and parts industry, the order backlog for nondefense capital goods declined \$3.5 billion or 2.5 percent to \$134.4 billion.

Inventories held by producers of durable goods dropped \$0.5 billion or 0.3 percent to \$184.3 billion, the lowest level since July 1981. Except for increases in the transportation equipment and instruments and related products industries, the rest of the major industry groups showed little change or declined. The inventories held by producers of nondurable goods declined \$0.8 billion or 0.9 percent to \$90.8 billion. The largest decline was in the food products industry where inventories declined \$0.3 billion or 1.7 percent to \$19.8 billion.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for July is scheduled for release on August 20, 1982, and the full report is scheduled for release on August 31, 1982.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Single copies of the M3-1.11, "Manufacturers' Shipments, Inventories, and orders, 1977-1981," can be purchased for \$5.00 from the Customer Services Section, Bureau of the Census, Washington, D.C. 20233. Checks should be made payable to Superintendent of Documents. A computer tape of the report, including data back to 1958, can be purchased by sending a check or money order for \$140 to the Data User Services Division, Customer Services Branch, Bureau of the Census, Washington, D.C. 20233. Checks for the computer tape should be made payable to Commerce-Census.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Millions of dollars)

SIC	Industry	Seasonally adjusted										Not seasonally adjusted ¹				
		1982 ^r					1982 ^p					1982 ^r				
		June	May	April	March	Feb.	Jan.	June	May	April	March	Feb.	Jan.	1982	1981	
	TOTALS															
	All manufacturing industries.....	180,799	180,693	156,114	157,517	158,142	155,023	168,399	161,541	158,058	165,832	160,220	164,431	958,481	1,013,307	
	Manufacturing industries.....	143,177	143,514	140,168	141,712	142,990	141,176	149,358	143,537	141,169	148,470	144,697	131,791	859,072	906,709	
	Manufacturing industries excluding transportation.....	82,799	83,596	81,716	84,000	83,929	81,387	87,390	83,896	82,755	88,957	84,726	74,790	502,514	529,579	
	Manufacturing industries with unfilled orders.....	78,715	79,383	77,136	78,126	77,976	75,551	84,125	80,485	79,101	83,776	78,829	68,605	474,921	513,799	
	Durable goods industries.....	65,708	66,611	64,889	66,339	66,272	64,627	69,937	66,981	65,883	70,820	67,195	58,860	399,676	427,759	
	Durable goods with unfilled orders.....	82,084	81,310	78,978	79,394	80,167	79,472	84,274	81,056	78,957	82,055	81,391	75,826	483,559	499,507	
	Nondurable goods industries.....	17,091	16,985	16,827	17,661	17,357	16,960	17,453	16,915	16,873	18,136	17,531	15,930	102,838	101,818	
	Nondurable goods with unfilled orders.....	10,275	10,803	10,708	11,308	11,176	10,467	11,094	10,272	10,306	11,654	11,236	9,011	63,573	66,870	
	MARKET CATEGORIES	30,718	30,310	29,578	29,753	29,570	29,021	31,491	29,784	29,073	30,405	29,871	26,920	177,544	173,145	
	Home goods and apparel.....	24,258	25,056	23,997	25,623	25,566	24,185	26,224	25,126	24,125	27,538	25,669	21,622	150,304	152,628	
	Consumer services.....	11,959	11,526	11,002	10,332	9,769	8,836	12,982	12,289	11,967	11,509	9,970	8,271	66,988	72,853	
	Equipment and defense products.....	11,578	12,058	11,446	11,738	11,400	11,398	12,582	12,392	11,799	11,819	10,767	9,555	68,914	78,481	
	Automotive equipment.....	71,511	70,940	69,383	68,862	70,261	71,115	74,026	71,678	70,788	72,906	72,707	69,052	431,157	469,317	
	Construction materials, supplies, and other materials, supplies, and intermediate products.....	4,985	4,808	4,897	4,982	4,976	4,723	5,100	4,668	4,772	5,269	4,881	4,016	28,706	30,388	
	Supplementary series ²	27,580	28,140	26,869	28,547	28,417	27,067	29,584	28,035	26,857	30,583	28,824	24,434	168,317	170,885	
	Household durable goods industries.....	22,761	23,471	22,599	24,060	24,003	23,066	24,522	23,296	22,604	25,892	24,931	20,834	141,161	148,508	
	Capital goods industries.....	4,819	4,669	4,271	4,490	4,374	4,002	5,002	4,739	4,252	4,690	4,333	3,598	28,074	22,376	
	Defense.....															
	INDUSTRY GROUPS AND INDUSTRIES															
	Durable goods industries:															
32	Stone, clay, and glass products.....	3,740	3,863	3,728	3,821	3,795	3,884	4,064	3,923	3,801	3,871	3,543	3,238	22,440	24,924	
322	Primary metal industries.....	8,557	8,682	8,953	8,829	9,272	10,028	9,065	8,627	9,507	9,742	9,245	8,534	52,727	56,582	
33	Primary metal industries.....	4,001	3,906	4,156	4,254	4,812	5,009	4,133	3,974	4,440	4,813	5,051	4,837	26,925	27,938	
331-9	Nonferrous and other primary metals.....	3,797	3,894	3,952	3,664	3,976	4,137	3,972	4,004	4,165	3,974	4,088	3,949	26,202	29,376	
34	Fabricated metal products.....	9,859	10,096	9,750	9,765	9,357	9,231	10,473	10,244	9,970	10,219	9,528	8,360	58,902	63,931	
341	Metal cans, barrels, and drums.....	949	875	915	912	952	979	1,054	912	901	930	917	815	5,529	5,655	
35	Machinery, except electrical.....	15,330	15,899	15,432	16,570	16,387	15,939	16,646	15,810	15,602	18,032	16,964	14,455	97,509	102,395	
351	Engines and turbines.....	1,144	1,209	1,296	1,245	1,283	1,291	1,267	1,205	1,287	1,456	1,323	1,257	7,795	8,189	
352	Farm machinery and equipment.....	984	1,108	1,009	1,011	1,187	992	1,102	1,102	1,149	1,220	1,227	938	6,786	7,066	
353	Material-handling equipment.....	2,981	2,815	2,788	2,963	3,250	2,957	3,091	2,871	2,938	3,110	3,163	2,869	18,242	18,892	
354	Working machinery.....	1,865	1,861	1,894	1,925	1,967	1,934	1,956	1,845	1,875	1,958	1,941	1,911	5,666	6,003	
356	General industrial machinery.....	1,145	1,305	1,244	1,384	1,409	1,411	1,265	1,331	1,275	1,449	1,443	1,260	8,003	8,513	

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' RETIREMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES—Continued
(Millions of dollars)

SIC	Industry	Seasonally adjusted					Not seasonally adjusted ¹					Year-to-date			
		June 1982 ²	May 1982 ²	April 1982 ²	March 1982 ²	Feb. 1982 ²	Jan. 1982 ²	June 1982 ²	May 1982 ²	April 1982 ²	March 1982 ²	Feb. 1982 ²	Jan. 1982 ²	1982	1981
INDUSTRY GROUPS AND INDUSTRIES--															
Continued															
Durable goods industries--															
Continued															
36	Electrical machinery.....	11,575	11,912	11,677	11,508	11,451	11,210	12,286	11,716	11,622	12,094	11,689	10,410	69,817	68,706
361,2	Electrical transmission and distribution equipment and industrial apparatus.....	1,714	1,777	1,730	1,782	1,768	1,758	1,847	1,810	1,746	1,896	1,860	1,673	10,832	11,266
363	Household appliances.....	1,043	1,027	1,033	998	999	995	1,047	1,022	1,029	1,015	1,019	860	6,149	6,988
365	Radio and TV.....	3,765	3,775	3,675	3,742	3,648	3,605	3,777	3,846	3,754	3,702	3,643	3,537	3,855	4,237
367	Communication equipment.....	3,651	3,806	3,833	3,648	3,742	3,605	3,947	3,846	3,931	3,931	3,732	3,313	22,683	20,277
369	Electronic components.....	17,622	17,179	15,945	15,005	15,152	13,847	19,041	18,004	16,889	17,362	15,524	12,640	94,707	104,362
37	Transportation equipment.....	10,418	9,509	9,509	8,829	8,261	7,357	11,366	10,682	10,297	9,905	8,521	6,979	57,750	62,378
371	Motor vehicles and parts.....	5,590	5,590	4,912	5,237	5,085	4,924	6,121	5,640	4,991	5,605	5,202	4,270	32,519	32,519
371,6	Aircraft, missiles, and parts.....	5,721	5,590	4,912	5,237	5,085	4,924	6,121	5,640	4,991	5,605	5,202	4,270	32,519	32,519
375	Shipbuilding and military tank vehicles.....	938	994	900	1,010	1,018	811	977	1,047	882	1,029	962	724	5,621	5,728
379	Instrument and related products.....	3,950	3,988	3,825	3,942	3,933	3,754	4,224	3,936	3,758	4,171	3,832	3,379	23,612	23,612
38	Scientific and engineering.....	2,266	2,336	2,218	2,416	2,346	2,210	2,441	2,315	2,225	2,570	2,333	2,084	13,968	14,091
381-4	Photographic equipment.....	1,448	1,408	1,379	1,281	1,358	1,134	1,539	1,382	1,310	1,363	1,273	1,114	7,961	7,950
386	All other durable goods industries.....	8,002	7,764	7,826	7,884	7,929	7,659	8,346	7,901	7,943	8,187	7,703	6,489	46,569	50,649
Non-durable goods industries:															
20	Food and kindred products.....	23,277	23,019	22,302	22,404	22,709	22,849	23,765	22,721	21,813	23,140	22,814	20,580	134,813	134,969
201	Meat products.....	6,418	6,296	5,961	5,750	5,748	5,787	6,227	6,321	5,804	5,743	5,785	5,653	35,583	34,400
208	Beverages.....	2,956	3,112	3,201	3,085	3,152	2,984	3,384	3,236	3,215	3,027	2,795	2,489	18,146	16,513
209	Fats and oils.....	1,515	1,406	1,416	1,432	1,433	1,441	1,454	1,341	1,359	1,531	1,519	1,431	8,675	9,603
203-4,9	All other foods.....	9,139	8,951	8,577	8,974	9,198	8,807	9,313	8,567	8,248	9,661	9,536	8,095	53,420	55,881
21	Tobacco products.....	1,351	1,128	1,153	1,128	1,158	1,108	1,388	1,160	1,153	1,061	1,069	1,083	6,154	6,154
22	Textile mill and allied products.....	2,456	2,456	2,456	2,456	2,456	2,456	2,456	2,456	2,456	2,456	2,456	2,456	2,456	2,456
23	Chemical and allied products.....	6,346	6,346	6,346	6,346	6,346	6,346	6,346	6,346	6,346	6,346	6,346	6,346	6,346	6,346
261-3	Pulp, paper, etc.....	2,707	2,619	2,692	2,856	2,812	2,831	2,842	2,721	2,765	2,999	2,878	2,667	18,872	17,344
265	Paperboard containers.....	1,539	1,460	1,465	1,526	1,510	1,502	1,584	1,477	1,505	1,603	1,556	1,415	9,140	9,479
28	All other paper products.....	2,204	2,267	2,306	2,217	2,281	2,279	2,339	2,249	2,269	2,313	2,348	2,334	13,842	13,440
284	Chemicals and allied products.....	14,219	14,136	13,751	13,847	14,071	13,740	14,967	14,629	14,582	15,176	14,369	13,360	87,063	91,229
281,6	except pigments.....	4,612	4,538	4,425	4,654	4,734	4,612	4,810	4,652	4,734	5,074	4,923	4,476	28,669	31,832
283,4	Drugs, soap, and toiletries.....	4,102	3,956	3,923	3,838	3,771	3,542	4,291	3,660	3,757	4,054	3,804	3,375	22,951	21,787
29	Petroleum and coal products.....	17,511	17,382	16,494	15,698	16,024	17,011	17,686	17,287	16,194	15,533	16,547	17,298	100,545	111,052
30	Rubber and plastic products, n.e.c.....	3,797	3,569	3,500	3,614	3,520	3,446	3,934	3,592	3,648	3,607	3,669	3,375	21,825	23,724
33	All other non-durable goods industries.....	11,194	11,593	11,252	12,074	11,953	11,251	11,161	11,031	10,998	11,998	12,006	10,161	67,355	65,621

Preliminary.
Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.
The supplementary series of the separate industry categories as follows:
1. Miscellaneous personal goods.
2. Miscellaneous personal goods.
3. Capital goods industries—Comparable to the previous producers' capital goods and the defense products (old series) categories.
4. Nondefense products—Machinery, except electrical (excluding farm and construction machinery), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and aircraft and aircraft parts, and ordnance.
5. Defense products—Shipments of defense-oriented equipment, aircraft and aircraft parts, and shipbuilding.
The data are comparable to those published annually in the MA-175, Shipments to Federal Government Agencies (formerly Shipments of Defense-Oriented Equipment), for the specified industries.

Table 2. VALUE OF MANUFACTURES' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Millions of dollars)

SIC	Industry	Seasonally adjusted						Not seasonally adjusted ¹						Year-to-date	
		June 1982P	May 1982 ²	April 1982 ²	March 1982 ²	Feb. 1982 ²	Jan. 1982 ²	June 1982P	May 1982 ²	April 1982 ²	March 1982 ²	Feb. 1982 ²	Jan. 1982 ²	1982	1981
TOTALS															
	All manufacturing industries.....	156,760	157,224	155,694	157,198	155,984	154,519	162,337	156,003	157,656	166,453	159,497	147,978	949,924	1,021,441
	Manufacturing industries excluding transportation.....	140,374	141,348	139,099	140,060	138,679	139,337	145,267	140,198	140,285	147,495	142,961	132,618	849,024	915,080
	Manufacturing industries with unfilled orders.....	78,760	80,327	81,296	83,681	81,421	81,083	81,328	78,358	82,354	89,578	84,003	78,336	493,957	537,712
	Durable goods industries.....	74,664	76,143	76,891	77,859	76,209	75,037	78,247	75,257	78,765	84,383	78,548	71,856	467,056	521,111
	Durable goods with unfilled orders.....	61,657	63,371	64,643	66,074	64,605	64,137	64,059	61,753	65,566	71,423	66,913	62,111	391,809	435,080
	Nondurable goods industries.....	82,096	81,081	78,803	79,339	79,676	79,458	84,090	80,746	78,892	82,069	80,949	76,122	482,868	500,320
	Industries with unfilled orders.....	17,103	16,756	16,653	17,407	16,866	16,946	17,269	16,605	16,808	18,151	17,089	16,225	102,147	102,630
	Industries without unfilled orders.....	64,993	64,325	62,151	61,732	62,810	62,512	66,821	64,141	62,084	63,919	63,860	59,896	380,721	397,886
MARKET CATEGORIES															
	Home goods and apparel.....	10,798	11,608	10,762	11,570	11,120	10,296	11,163	11,231	10,790	12,102	11,268	9,021	65,555	68,025
	Consumer staples.....	30,720	30,340	29,477	29,822	29,996	28,978	31,491	29,751	28,952	30,449	29,880	26,997	173,520	173,214
	Equipment and defense products, except automotive.....	23,064	22,074	25,890	25,349	26,161	26,587	23,798	21,137	25,530	27,823	26,671	25,625	150,586	157,229
	Automotive.....	11,826	11,453	10,625	10,285	9,348	8,771	12,734	11,935	11,500	11,403	9,649	8,351	65,572	72,997
	Construction materials, supplies, and intermediate products.....	11,258	11,592	11,003	12,006	11,108	10,856	12,179	12,116	11,388	12,235	10,532	9,251	67,701	79,180
	Other materials, supplies, and intermediate products.....	69,094	70,347	67,937	68,167	68,162	69,031	70,992	69,833	69,496	72,441	71,496	68,734	422,992	472,280
SUPPLEMENTARY SERIES ²															
	Household durable goods industries.....	5,007	5,590	4,949	5,353	4,869	4,578	5,169	5,409	5,224	5,701	4,968	4,053	30,704	31,510
	Capital goods industries.....	26,653	25,107	28,782	29,239	28,772	28,291	25,593	23,681	28,448	31,427	29,447	27,816	166,462	175,240
	Nondefense.....	19,274	20,332	22,606	22,174	21,560	21,717	20,974	19,227	22,507	24,370	22,738	21,216	131,032	149,184
	Defense.....	5,379	4,775	6,174	7,065	7,213	6,573	4,619	4,454	5,942	7,106	5,709	6,600	35,430	26,053
INDUSTRY GROUPS AND INDUSTRIES															
	Durable goods industries:														
32	Stone, clay, and glass.....	3,761	3,877	3,642	3,700	3,703	3,689	4,049	3,937	3,755	3,774	3,489	3,146	22,150	24,988
33	Primary metal.....	8,388	8,453	8,137	7,596	7,421	7,163	8,269	8,040	7,814	8,121	7,484	6,849	52,499	57,079
333	Primary furnaces, steel mills, and metal products.....	3,789	3,928	3,583	3,632	3,741	4,409	5,499	5,584	5,407	6,184	4,514	4,480	24,168	37,737
333-5,9	Nonferrous and other primary metal products.....	3,931	3,741	3,828	3,440	3,767	3,866	3,919	3,768	3,884	3,911	4,021	4,033	23,536	29,060
34	Fabricated metal products.....	9,359	9,405	9,989	9,819	9,052	8,777	9,850	9,563	9,155	10,616	9,030	8,152	56,366	64,353
35	Machinery, except electrical.....	12,950	14,408	15,262	14,438	14,306	15,120	14,411	13,781	15,393	15,729	16,033	14,231	89,556	104,436
351	Engines and turbines.....	917	1,358	995	995	1,357	1,405	953	1,291	930	1,204	1,401	1,028	6,787	7,970
352	Construction, staining, and material-handling equipment.....	2,519	2,258	1,857	2,193	2,594	2,562	2,087	2,087	2,139	2,553	2,906	2,678	14,905	21,130
353	Metalworking machinery.....	754	649	623	535	735	735	834	619	601	672	783	684	4,193	5,718
356	General industrial machinery.....	901	1,266	1,024	1,229	1,351	1,316	994	1,223	1,085	1,305	1,402	1,355	7,364	9,079

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MAJOR CATEGORIES, AND SUPPLEMENTARY SERIES—Continued

SIC	Industry	(Billions of dollars)											
		Seasonally adjusted						Not seasonally adjusted ¹					
		June 1982 ^a	May 1982 ^a	April 1982 ^a	March 1982 ^a	Feb. 1982 ^a	Jan. 1982 ^a	June 1982 ^b	May 1982 ^b	April 1982 ^b	March 1982 ^b	Feb. 1982 ^b	Jan. 1982 ^b
36	Electrical, electronic, and optical equipment and instruments	11,275	11,912	11,677	11,508	11,451	11,210	12,286	11,716	11,622	12,094	11,689	10,410
361,2	Electrical, electronic, and optical equipment and instruments	1,714	1,777	1,730	1,782	1,768	1,758	1,847	1,810	1,746	1,896	1,860	1,673
363	Household appliances	1,043	1,037	1,023	1,022	999	995	1,137	1,022	1,029	1,082	1,019	860
365	Radio and TV	704	723	675	742	648	648	609	609	574	574	643	537
366	Communication equipment	3,531	3,608	3,475	3,468	3,412	3,405	3,947	3,846	3,794	3,931	3,732	3,313
367	Electronic equipment	17,622	17,179	15,945	15,805	15,152	13,867	15,041	16,006	16,889	17,362	15,524	12,640
37	Transportation equipment	10,418	9,974	9,509	8,829	8,241	7,357	11,366	10,297	9,905	8,521	6,979	57,750
371	Motor vehicles and parts	5,721	5,590	4,912	5,237	5,085	4,924	6,121	5,640	4,991	5,605	5,202	4,270
372,6	Aircraft, missiles, and parts	988	984	900	1,010	1,018	811	977	1,087	882	1,079	962	5,128
373	Shipbuilding and military tank vehicles	3,950	3,988	3,825	3,942	3,933	3,754	4,224	3,754	3,754	4,224	3,754	3,754
3795	Transportation equipment	2,466	2,436	2,218	2,416	2,346	2,210	2,441	2,315	2,225	2,570	2,333	2,088
381-4	Instrumental and engineering	1,648	1,608	1,579	1,281	1,358	1,334	1,539	1,382	1,310	1,343	1,273	1,116
386	Photographic goods	8,002	7,764	7,826	7,884	7,929	7,659	8,346	7,901	7,943	8,187	7,703	6,489
24	All other durable goods	23,277	23,018	22,302	22,404	22,709	22,069	23,765	22,721	21,813	23,140	22,814	20,580
25	Industries	6,418	6,296	5,961	5,750	5,748	5,787	6,277	6,321	5,804	5,763	5,785	5,653
28	Food and kindred products	1,115	1,108	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086
20	Meat products	1,115	1,108	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086
201	Beverages	1,115	1,108	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086
208	All other food	1,115	1,108	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086
203-4,9	All other food	1,115	1,108	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086
21	Tobacco products	1,251	1,128	1,157	1,103	1,136	1,138	1,388	1,160	1,153	1,061	1,069	1,083
22	Textile mill products	4,285	4,148	4,098	4,254	4,150	3,905	4,618	4,209	4,070	4,625	4,135	3,553
26	Paper and allied products	9,450	9,346	9,463	9,399	9,603	9,712	9,658	9,647	9,538	9,615	9,782	9,616
261-3	Pulp and paper	1,539	1,460	1,465	1,526	1,510	1,502	1,586	1,477	1,505	1,595	1,551	1,410
264	All other paper products	2,204	2,267	2,306	2,217	2,281	2,379	2,329	2,269	2,269	2,313	2,348	2,336
28	Chemicals and allied products	14,219	14,136	13,751	13,847	14,071	13,740	14,967	14,659	14,542	15,176	14,369	13,360
281,6	Industrial chemicals, except pigments	4,412	4,538	4,635	4,654	4,734	4,632	4,810	4,652	4,794	5,074	4,923	4,476
283,4	Chemical and allied products	4,402	4,526	4,623	4,654	4,734	4,632	4,810	4,652	4,794	5,074	4,923	4,476
29	Petroleum and coal products	17,311	17,382	16,494	15,698	16,024	17,011	17,686	17,287	16,194	15,533	16,547	17,288
30	Rubber and plastic products	3,997	3,569	3,500	3,414	3,520	3,446	3,934	3,592	3,648	3,607	3,669	3,375
23	All other nondurable goods	11,194	11,583	11,252	12,074	11,953	11,251	11,161	11,021	10,998	11,998	12,006	10,161
27	Industries	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432
21	All other industries	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432
28	Chemicals and allied products	14,219	14,136	13,751	13,847	14,071	13,740	14,967	14,659	14,542	15,176	14,369	13,360
281,6	Industrial chemicals, except pigments	4,412	4,538	4,635	4,654	4,734	4,632	4,810	4,652	4,794	5,074	4,923	4,476
283,4	Chemical and allied products	4,402	4,526	4,623	4,654	4,734	4,632	4,810	4,652	4,794	5,074	4,923	4,476
29	Petroleum and coal products	17,311	17,382	16,494	15,698	16,024	17,011	17,686	17,287	16,194	15,533	16,547	17,288
30	Rubber and plastic products	3,997	3,569	3,500	3,414	3,520	3,446	3,934	3,592	3,648	3,607	3,669	3,375
23	All other nondurable goods	11,194	11,583	11,252	12,074	11,953	11,251	11,161	11,021	10,998	11,998	12,006	10,161
27	Industries	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432
21	All other industries	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432	13,432

¹ Preliminary.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

² The supplementary series are groupings of the separate industry categories as follows:

Household durable goods industries—Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; photographic goods, watches, and clocks; and miscellaneous personal goods.

Nondefense products—Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products—Machinery, except electrical (excluding farm machinery and equipment and machine tools), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment; communication equipment (excluding defense communication equipment); ordnance, communication equipment, aircraft parts, and shipbuilding.

Defense products—Based on separate reports on defense work filed by major defense contractors and their subsidiaries, and on data from the Department of Defense (formerly Shipments of Defense-Ordered Industries), for the specified industries.

The data are comparable to those published annually in the M-175, Shipments to Federal Government Agencies.

Table 2. VALUE OF MANUFACTURES' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

(Billions of dollars)

SIC	Industry	Seasonally adjusted					Not seasonally adjusted ¹					Year-to-date				
		June 1982 ^a	May 1982 ^a	April 1982 ^a	March 1982 ^a	Feb. 1982 ^a	Jan. 1982 ^a	June 1982 ^a	May 1982 ^a	April 1982 ^a	March 1982 ^a	Feb. 1982 ^a	Jan. 1982 ^a	1982	1981	
TOTALS																
	All manufacturing industries.....	156,760	157,226	155,694	157,198	155,984	154,519	162,337	156,003	157,656	166,453	159,497	147,978	949,924	1,021,441	
	Manufacturing industries excluding transportation.....	140,374	141,348	139,099	140,060	138,679	139,337	145,267	140,198	140,285	147,495	142,961	132,618	849,024	915,080	
	Manufacturing industries with unfilled orders.....	78,760	80,327	81,296	83,681	81,471	81,083	81,328	78,358	82,354	89,578	84,003	78,336	493,957	537,712	
	Durable goods industries.....	74,664	76,891	77,859	79,681	76,709	75,087	78,247	75,257	78,765	84,383	78,548	71,856	467,056	521,111	
	Durable goods with unfilled orders.....	61,657	63,371	64,643	66,074	64,605	64,137	64,059	61,753	65,546	71,427	66,913	62,111	391,809	435,080	
	Nondurable goods industries.....	82,096	81,081	78,803	79,339	79,676	79,458	84,090	80,746	78,892	82,069	80,949	76,122	482,868	500,320	
	Industries with unfilled orders.....	17,103	16,756	16,653	17,407	16,866	16,946	17,269	16,605	16,808	18,151	17,089	16,225	102,147	102,630	
	Industries without unfilled orders.....	64,993	64,325	62,151	61,732	62,810	62,512	66,821	64,141	62,084	63,919	63,860	59,896	380,721	397,686	
MARKET CATEGORIES																
	Home goods and apparel.....	10,798	11,608	10,762	11,570	11,120	10,296	11,143	11,231	10,790	12,102	11,268	9,021	65,555	68,025	
	Consumer staples.....	30,720	30,340	29,477	29,822	29,396	28,978	31,491	29,751	28,952	30,449	29,880	26,997	177,520	173,214	
	Equipment and defense products, except automotive.....	23,064	22,074	25,890	25,349	26,161	26,587	23,798	21,137	25,530	27,823	26,671	25,625	150,586	172,725	
	Automotive.....	11,826	11,263	10,625	10,285	9,348	8,771	12,734	11,935	11,500	11,403	9,649	8,351	65,572	72,997	
	Construction materials, supplies, and intermediate products.....	11,258	11,592	11,003	12,006	11,108	10,856	12,179	12,116	11,388	12,235	10,532	9,251	67,701	79,180	
	Other materials, supplies, and intermediate products.....	69,094	70,347	67,937	68,167	68,162	69,021	70,992	69,833	69,496	72,441	71,496	68,734	422,992	472,280	
SUPPLEMENTARY SERIES:																
	Household durable goods industries.....	5,007	5,590	4,949	5,353	4,869	4,578	5,149	5,609	5,224	5,701	4,968	4,053	30,706	31,510	
	Capital goods industries.....	26,653	25,107	28,782	29,239	28,772	28,291	25,593	23,681	28,448	31,477	29,447	27,816	166,462	175,260	
	Nondefense.....	19,274	20,332	22,608	22,174	21,560	21,717	20,974	19,227	22,507	24,370	22,738	21,216	131,032	149,184	
	Defense.....	5,379	4,775	6,174	7,065	7,213	6,573	4,619	4,454	5,942	7,106	5,709	6,600	35,430	26,053	
INDUSTRY GROUPS AND INDUSTRIES																
	Durable goods industries:															
32	Stone, clay, and glass.....	3,763	3,877	3,642	3,700	3,703	3,689	4,049	3,937	3,755	3,774	3,489	3,146	22,150	24,988	
33	Primary metals.....	8,588	8,455	8,137	7,356	7,281	7,140	7,269	7,060	7,240	7,411	7,240	6,840	52,499	73,079	
34	Nonferrous metal products.....	3,763	3,877	3,642	3,700	3,703	3,689	4,049	3,937	3,755	3,774	3,489	3,146	22,150	24,988	
333-5,9	Nonferrous metal products, except electrical.....	3,763	3,877	3,642	3,700	3,703	3,689	4,049	3,937	3,755	3,774	3,489	3,146	22,150	24,988	
35	Fabricated metal products.....	3,931	3,741	3,828	3,869	3,767	3,866	3,919	3,768	3,884	3,911	4,021	4,033	23,536	29,060	
351	Machinery, except electrical.....	9,359	9,359	9,155	9,819	9,052	8,777	9,800	9,563	9,152	10,616	9,015	8,152	56,366	64,353	
352	Engines and turbines.....	12,950	14,408	15,262	14,438	14,306	14,411	14,411	13,781	15,393	15,729	16,013	14,231	89,556	104,426	
353	Engines and turbines, except aircraft.....	917	1,358	995	995	1,357	1,065	953	1,291	950	1,204	1,401	1,028	6,787	7,970	
354	Material-handling equipment.....	2,519	2,258	1,857	2,293	2,294	2,663	2,542	2,087	2,139	2,553	2,906	2,678	14,905	21,130	
355	Metallworking machinery.....	754	649	623	535	722	735	834	619	601	672	783	684	4,193	5,378	
356	General industrial machinery.....	901	1,266	1,024	1,229	1,351	1,316	994	1,223	1,085	1,305	1,402	1,355	7,364	9,079	

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURES: NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES—Continued

SIC	Industry	Seasonally adjusted ¹						Not seasonally adjusted ¹							
		Seasonally adjusted ¹						Not seasonally adjusted ¹							
		June 1982 ^p	May 1982 ^r	April 1982 ^r	March 1982 ^r	Feb. 1982 ^r	Jan. 1982 ^r	June 1982 ^p	May 1982 ^r	April 1982 ^r	March 1982 ^r	Feb. 1982 ^r	Jan. 1982 ^r	Year to date	
	INDUSTRY GROUPS AND INDUSTRIES--														
	Continued														
	Durable goods industries--														
	Continued														
	Electrical machinery.....	11,734	11,888	12,508	12,782	11,391	11,862	12,132	11,532	12,471	13,502	12,202	11,588	73,427	72,357
36	Electrical, electronic, and optical equipment.....														
36,1,2	Electrical transmission and distribution equipment and industrial apparatus.....	1,417	1,738	1,490	1,703	1,601	1,740	1,491	1,739	1,630	1,838	1,795	1,753	10,246	11,901
363	Household appliances.....	1,013	1,050	1,029	1,040	954	1,013	1,119	1,035	1,026	1,096	1,000	909	6,195	7,095
365	Radio and TV.....	625	638	670	684	678	688	675	687	678	691	684	678	4,381	4,981
366	Communication equipment.....	4,315	3,818	4,596	4,996	3,818	4,132	4,275	3,466	4,789	5,356	4,064	4,189	26,142	22,315
37	Transportation equipment.....	2,178	2,803	2,415	2,364	2,390	2,426	2,389	2,617	2,688	2,496	2,693	2,538	15,003	15,318
37,3	Transportation equipment.....	16,386	15,876	16,595	17,138	17,305	15,182	17,070	15,805	17,371	18,758	16,536	15,360	100,900	106,356
372,8	Aircraft, missiles, and parts.....														
	Shipbuilding and military tank vehicles.....	4,646	4,854	5,779	7,206	7,475	5,861	4,902	4,426	5,624	7,330	6,588	6,326	35,196	32,348
3731	Shipbuilding and military tank vehicles.....	876	711	1,092	476	1,108	1,310	469	439	1,238	858	912	1,306	5,222	6,336
3795	Instruments and related products.....	3,782	3,896	3,920	4,022	4,109	3,670	4,154	3,770	3,856	4,331	4,017	3,365	23,463	23,779
24	All other durable goods industries.....	8,104	8,340	7,838	8,364	8,001	7,618	8,316	8,709	8,371	8,802	7,828	6,666	48,692	51,747

Preliminary.

¹Shipments and new orders for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

ing-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries—Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; optalmic goods, watches, and clocks; and miscellaneous personal goods.

[illegible]

Table 3. VALUE OF MANUFACTURERS' UNFULFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(Millions of dollars)

SIC	Industry group	Seasonally adjusted						Not seasonally adjusted											
		Current 6 months						Last 3 months (a year ago)											
		June 1982 ^a	May 1982 ^a	April 1982 ^a	March 1982 ^a	Feb. 1982 ^a	Jan. 1982 ^a	June 1982 ^a	May 1982 ^a	April 1982 ^a	March 1982 ^a	Feb. 1982 ^a	Jan. 1982 ^a	June 1981	May 1981	April 1981			
TOTALS																			
	All manufacturing industries.....	307,715	311,746	315,218	315,639	315,957	318,114	307,819	313,885	319,418	319,817	319,197	319,921	326,927	329,207	329,250			
	Manufacturing industries excluding transportation.....	191,075	193,970	196,041	197,110	198,760	203,071	192,152	196,265	199,579	200,462	201,238	202,974	212,411	212,796	212,506			
	Durable goods industries.....	298,415	302,458	305,701	305,947	306,211	307,877	298,531	304,413	309,637	309,971	309,365	309,646	315,449	317,532	317,745			
	Nondurable goods industries.....	9,300	9,288	9,518	9,692	9,746	10,237	9,288	9,472	9,782	9,847	9,832	10,275	11,478	11,675	11,505			
MARKET CATEGORIES																			
	Home goods and apparel.....	5,239	5,215	4,382	4,429	3,998	4,029	5,669	5,621	4,693	4,330	3,839	3,798	4,997	4,683	4,776			
	Consumer electronics.....	186,950	188,274	191,517	190,002	190,323	190,058	186,335	189,012	193,355	192,414	192,234	191,554	189,403	191,070	191,719			
	Automotive equipment.....	15,186	15,506	15,972	16,416	16,168	16,440	15,427	15,829	16,106	16,517	16,102	16,337	17,945	17,792	17,278			
	Construction materials, supplies, and intermediate products.....	100,340	102,751	103,346	104,793	105,488	107,588	100,388	103,423	105,264	106,556	107,022	108,233	114,582	115,662	115,477			
SUPPLEMENTARY SERIES ¹																			
	Household durable goods industries.....	4,164	4,122	3,340	3,288	2,916	2,924	4,618	4,570	3,626	3,174	2,742	2,654	3,915	3,617	3,688			
	Capital goods industries.....	218,844	221,766	224,799	222,888	222,197	221,841	218,213	222,209	226,562	224,967	224,074	223,451	221,980	223,409	233,786			
	Nondefense.....	134,369	137,852	140,991	140,982	142,868	145,351	134,622	138,174	142,260	143,337	143,859	145,612	154,999	156,331	157,524			
	Defense.....	84,475	83,916	83,808	81,905	79,329	76,490	83,591	84,035	84,321	82,631	80,215	77,860	67,091	67,078	66,274			
INDUSTRY GROUPS AND INDUSTRIES																			
	Durable goods industries:	1,783	1,762	1,769	1,835	1,954	2,046	1,825	1,839	1,825	1,871	1,967	2,021	2,351	2,341	2,315			
32	Stone, clay, and glass.....	22,078	22,447	22,378	23,195	24,427	25,739	22,083	22,862	23,654	24,737	25,608	26,721	27,747	27,747	27,747			
33	Primary metals.....	12,917	13,129	13,108	13,079	14,502	15,713	13,034	13,668	14,058	14,691	15,320	15,757	17,088	16,346	16,488			
331	Blat furnaces, steel mills.....	6,553	6,419	6,572	6,697	6,921	7,030	6,527	6,579	6,846	7,127	7,189	7,236	8,300	8,903	8,853			
331-6,9	Nonferrous and other primary	26,406	26,883	27,574	28,334	28,281	28,785	26,443	27,065	27,745	28,588	28,270	28,769	30,629	30,583	30,205			
34	Fabricated metal products.....	63,557	65,934	67,425	67,595	69,727	71,807	63,931	66,169	68,198	68,409	70,711	71,663	75,216	75,159	75,439			
35	Machinery, except electrical.....	15,642	15,467	15,739	16,039	16,289	16,165	15,492	15,627	15,741	16,098	16,351	16,272	17,309	17,632	17,602			
351	Engines and turbines.....	7,351	7,813	8,370	9,301	9,870	10,526	7,373	7,923	8,707	9,506	10,063	10,530	10,989	10,563	10,507			
353	Construction, mining, and metalworking machinery.....	3,341	3,454	3,666	3,937	4,327	4,721	3,324	3,467	3,672	3,946	4,332	4,570	6,420	6,643	6,872			
354	General industrial machinery.....	5,977	6,221	6,260	6,480	6,635	6,892	5,983	6,233	6,342	6,532	6,675	6,716	6,558	6,714	6,655			

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry group	Seasonally adjusted						Not seasonally adjusted ¹						
		June 1962 ²	May 1962 ²	April 1962 ²	March 1962 ²	Feb. 1962 ²	Jan. 1962 ²	June 1962 ²	May 1962 ²	April 1962 ²	March 1962 ²	Feb. 1962 ²	Jan. 1962 ²	Last 3 months (a year ago)
	INDUSTRY GROUPS AND INDUSTRIES--Continued													
	Durable goods industries--Continued													
36	Electrical machinery.....	54,747	54,588	54,613	53,784	52,510	52,370	54,843	54,999	55,100	54,330	52,922	52,408	50,911
361,2	Household electrical machinery and distribution equipment and appliances.....	7,866	8,163	8,202	8,442	8,521	8,688	7,926	8,282	8,352	8,469	8,526	8,591	8,913
363	Household appliances.....	302	332	319	323	306	351	325	343	359	332	318	337	460
365	Radio and TV.....	390	449	374	359	337	335	335	369	335	316	300	309	419
367	Electronic components.....	11,810	12,088	11,798	11,852	11,855	11,805	12,035	12,123	12,043	11,487	11,866	11,997	11,987
37	Transportation equipment.....	116,640	117,876	119,178	118,529	117,196	115,043	115,667	117,640	119,839	119,355	117,959	116,947	114,516
372,6	Aircraft, missiles, and parts.....	91,539	92,613	93,349	92,483	90,514	88,123	91,055	92,275	93,490	92,556	91,131	89,745	87,112
3731	Shipbuilding and military tank vehicles.....	19,350	19,413	19,695	19,693	20,037	19,847	19,045	19,555	20,162	19,605	19,976	20,026	19,496
3795	Trucks, trailers, and other motor vehicles.....	7,200	7,267	7,458	7,362	7,203	7,106	7,275	7,345	7,311	7,443	7,203	7,098	7,110
38	All other durable goods industries.....	6,004	5,901	5,325	5,313	4,832	4,760	6,464	6,494	5,685	5,258	4,643	4,519	5,119

¹ Preliminary.

² Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.
 Nondefense products--Comparable to the previous producers' capital goods and the defense products (old series) categories.
 Radio/defense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.
 Defense products--Based on separate reports on defense work filled by large defense contractors in the following industries: ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MA-175, Shipments to Federal Government Agencies (formerly Shipments of Defense-Oriented Industries), for the specific industries.

Table 4. VALUE OF MANUFACTURES^a INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(Millions of dollars)

SIC	Industry group	Seasonally adjusted					Not seasonally adjusted ¹												
		June 1982 ^c	May 1982 ^c	April 1982 ^c	March 1982 ^c	Feb. 1982 ^c	Jan. 1982 ^c	Current 6 months						Last 3 months (6 year ago)					
								June 1982 ^c	May 1982 ^c	April 1982 ^c	March 1982 ^c	Feb. 1982 ^c	Jan. 1982 ^c	June 1981	May 1981	April 1981			
TOTALS																			
	All manufacturing industries.....	275,118	276,449	278,985	280,065	281,688	281,155	276,285	279,391	282,017	282,050	283,594	281,926	275,676	276,959	274,918			
	Manufacturing industries excluding transportation.....	236,150	237,768	240,242	241,915	243,494	243,033	237,738	240,988	243,064	243,463	244,941	243,847	238,371	239,550	237,466			
	Manufacturing industries with unfilled orders.....	190,594	191,345	192,468	192,527	193,690	193,360	192,447	194,175	194,771	194,061	194,620	192,721	187,599	187,273	186,311			
	Durable goods industries.....	184,382	184,870	185,916	186,065	187,121	187,054	185,481	187,287	188,253	188,026	188,756	187,031	182,364	182,386	181,582			
	Durable goods with unfilled orders.....	169,536	170,176	171,189	171,059	171,959	171,756	170,712	172,341	173,035	172,646	173,046	171,539	166,137	165,947	165,134			
	Nondurable goods industries.....	90,796	91,579	93,070	94,002	94,567	94,100	90,804	92,104	93,764	94,024	94,838	94,895	93,378	94,375	93,337			
	Nondurable goods with unfilled orders.....	21,058	21,169	21,279	21,467	21,731	21,604	21,735	21,834	21,736	21,579	21,574	21,182	21,442	21,326	21,177			
MARKET CATEGORIES																			
	Home goods and apparel.....	21,545	21,779	21,948	22,041	22,631	22,766	22,693	22,775	22,436	22,110	22,447	22,321	22,538	22,450	21,880			
	Consumer staples.....	32,867	33,355	33,673	33,631	33,644	33,309	31,970	32,653	33,362	33,124	33,808	33,539	31,890	32,333	32,476			
	Equipment and defense products, except automotive.....	77,715	77,506	77,708	76,716	76,764	76,265	78,032	78,267	78,430	77,482	77,207	76,046	73,511	73,429	72,977			
	Automotive.....	11,155	11,102	11,131	11,220	11,366	11,567	10,833	11,063	11,309	11,493	11,724	11,811	11,757	12,046	12,259			
	Construction materials, supplies, and intermediate products.....	20,632	20,639	20,723	21,078	21,338	21,729	20,883	21,076	21,301	21,694	21,864	21,748	22,047	21,979	21,762			
	Other materials, and supplies, and intermediate products.....	111,204	112,068	113,741	115,379	115,964	115,518	111,874	113,557	115,199	115,948	116,544	116,041	113,883	114,322	113,594			
SUPPLEMENTARY SERIES ²																			
	Household durable goods industries.....	10,752	10,692	10,856	10,896	11,120	11,196	11,093	11,119	11,080	10,981	11,121	11,000	10,881	10,996	10,805			
	Capital goods industries.....	87,421	87,644	87,752	88,735	88,974	88,302	87,900	88,584	88,587	87,640	87,226	85,862	83,445	83,171	82,683			
	Defense.....	14,209	14,029	13,946	13,857	13,598	13,336	14,382	14,191	14,005	13,477	13,533	13,148	12,306	11,903	11,683			
INDUSTRY GROUPS AND INDUSTRIES																			
	Durable goods industries:																		
32	Chemical and allied products.....	6,409	6,429	6,479	6,544	6,629	6,582	6,524	6,576	6,723	6,768	6,832	6,602	6,468	6,218	6,017			
322	Glass containers.....	682	696	702	719	727	667	696	714	716	719	681	664	646	622	604			
33	Primary metals.....	26,582	25,063	25,403	26,056	26,070	25,974	24,610	25,181	25,499	26,005	26,398	26,456	24,163	24,016	24,076			
331	Blat furnaces, steel mills.....	12,542	12,067	13,075	13,441	13,128	13,120	12,492	12,764	12,875	13,095	13,314	13,325	12,180	12,123	12,116			
333-6,	Nonferrous and other primary																		
34	Fabricated metal products.....	10,696	10,824	10,907	11,145	11,354	11,281	10,728	10,997	11,179	11,382	11,470	11,370	10,447	10,385	10,409			
341	Metal cans, barrels, and drums.....	19,579	19,664	19,716	19,848	20,142	20,389	19,835	20,064	20,146	20,263	20,327	20,272	19,772	19,722	19,722			
35	Machinery, except electrical.....	44,071	44,047	44,391	44,134	44,498	44,533	44,607	45,015	44,962	44,737	44,709	44,344	42,114	42,102	41,702			
351	Engines and turbines.....	2,523	2,579	2,602	2,587	2,604	2,588	2,568	2,608	2,641	2,607	2,636	2,608	2,535	2,502	2,502			
352	Farm machinery and equipment.....	2,765	2,745	2,782	2,808	2,850	2,920	2,868	2,905	2,904	2,869	3,003	2,965	2,890	2,970	2,969			
353	Construction, mining, and																		
354	Material-handling equipment.....	11,140	11,391	11,301	10,950	10,794	10,585	11,207	11,471	11,387	11,094	10,892	10,653	9,600	9,499	9,464			
356	General industrial machinery.....	2,415	2,480	2,539	2,588	2,640	2,624	2,427	2,510	2,554	2,778	2,652	2,757	2,757	2,810	2,783			
356	General industrial machinery.....	4,091	4,155	4,142	4,098	4,114	4,109	4,136	4,176	4,181	4,142	4,164	3,967	3,873	3,875	3,855			

See footnotes at end of table.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES—Continued

(Millions of dollars)

SIC	Industry group	Seasonally adjusted					Not seasonally adjusted ¹				
		June 1982 ²	May 1982 ²	April 1982 ²	March 1982 ²	Feb. 1982 ²	Jan. 1982 ²	June 1982 ²	May 1982 ²	April 1982 ²	Last 3 months (year ago)
	INDUSTRY GROUPS AND INDUSTRIES—Continued										
	Durable goods industries—Continued										
36	Electric machinery.....	27,051	27,024	27,365	27,526	27,697	27,784	27,577	27,733	27,820	27,421
361.2	Industrial transmission and distribution apparatus.....	4,382	4,361	4,409	4,474	4,471	4,498	4,426	4,469	4,485	4,535
363	Radio and TV.....	1,910	1,853	1,868	1,895	1,924	1,982	2,008	2,010	1,991	1,937
365	Communication equipment.....	9,349	9,349	9,407	9,410	9,424	9,287	9,373	9,430	9,486	9,522
367	Electronic components.....	5,548	5,566	5,635	5,680	5,669	5,779	5,654	5,656	5,679	5,662
37	Transportation equipment.....	38,968	38,701	38,640	38,733	38,785	38,957	38,638	38,657	38,657	38,730
371	Aircraft, ships, and parts.....	26,798	26,599	26,432	25,681	25,356	25,010	26,696	26,671	26,594	25,936
372	Shipsbuilding and military tank vehicles.....	1,691	1,833	1,909	2,107	2,107	2,160	1,702	1,709	1,825	2,002
373	Instruments and related products.....	9,484	9,303	9,516	9,399	9,313	9,424	9,688	9,539	9,607	9,618
381-4	Scientific and engineering.....	6,684	6,556	6,575	6,595	6,523	6,717	6,372	6,392	6,455	6,418
26	Photographic goods.....	2,452	2,491	2,357	2,405	2,515	2,460	2,372	2,392	2,455	2,497
25	All other durable goods industries	14,178	14,239	14,246	14,404	14,462	14,597	14,283	14,386	14,462	14,706
	Non-durable goods industries:										
20	Meat products.....	19,796	20,160	20,377	20,405	20,486	20,481	18,771	19,344	19,916	20,115
201	Meat products.....	1,782	1,933	1,914	1,934	1,833	1,760	1,778	1,933	1,976	1,865
208	Beverages.....	3,523	3,525	3,563	3,619	3,648	3,653	3,431	3,550	3,639	3,723
209	Fats and oils.....	1,406	1,389	1,361	1,398	1,338	1,311	1,292	1,330	1,399	1,493
203-6,9	All other foods.....	11,453	11,606	11,455	11,598	11,511	11,511	10,526	10,663	11,177	11,492
21	Textile mill products.....	6,392	6,501	6,513	6,587	6,710	6,761	6,465	6,624	6,729	6,796
22	Textile mill products.....	8,842	8,810	8,842	8,921	8,850	8,675	9,017	9,080	9,045	8,928
26	Paper and allied products.....	3,588	3,590	3,560	3,540	3,534	3,490	3,647	3,662	3,609	3,564
261-3	Pulp, paper, etc.....	2,310	2,298	2,301	2,312	2,291	2,276	2,398	2,385	2,383	2,368
265	Paperboard containers.....	2,870	2,892	2,859	2,928	2,919	2,914	2,252	2,277	2,226	2,192
284	All other paper containers.....	20,995	21,363	21,428	21,418	21,418	21,420	20,931	21,356	21,729	21,724
28	Chemical and allied products except pigments.....	6,531	6,532	6,676	6,763	6,755	6,756	6,486	6,637	6,744	6,862
281,6	Drugs, soap, and toiletries.....	6,566	6,582	6,604	6,690	6,716	6,645	6,709	6,721	6,691	6,652
283,4	Petroleum and coal products.....	9,068	9,060	9,067	9,071	9,063	9,073	9,063	9,071	9,063	9,073
29	Rubber and plastic products, etc.....	6,009	6,115	6,165	6,153	6,172	6,120	6,059	6,262	6,404	6,335
30	All other nondurable goods industries.....	15,027	15,246	15,323	15,406	15,803	15,774	16,021	15,883	15,596	15,300
23	All other nondurable goods industries.....	15,027	15,246	15,323	15,406	15,803	15,774	16,021	15,883	15,596	15,300
27	All other nondurable goods industries.....	15,027	15,246	15,323	15,406	15,803	15,774	16,021	15,883	15,596	15,300
31	All other nondurable goods industries.....	15,027	15,246	15,323	15,406	15,803	15,774	16,021	15,883	15,596	15,300

Preliminary.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations: unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

²These figures are preliminary estimates of the separate industry categories as follows:

Household durable goods industries—Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries—Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense goods industries—Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components).

Defense goods industries—Shipments of defense products, except aircraft, ships, and parts, and defense products—based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the MA-175, Shipments to Federal Government Agencies (formerly Shipments of Defense-Oriented Industries), for the specified industries.

Table 5. VALUE OF MANUFACTURES: INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP

Industry	Quilions of dollars											
	Seasonally adjusted						Not seasonally adjusted					
	May 1982	June 1982	July 1982	Aug. 1982	Sept. 1982	Oct. 1982	May 1982	June 1982	July 1982	Aug. 1982	Sept. 1982	Oct. 1982
TOTALS	275,118	276,449	278,985	280,065	281,688	283,155	274,391	282,017	283,596	285,928	276,626	276,959
All manufacturing industries.....	184,322	184,970	185,916	186,033	187,131	188,235	184,351	186,033	187,596	189,928	186,626	187,018
Durable goods industries.....	6,409	6,429	6,479	6,504	6,529	6,554	6,576	6,601	6,626	6,651	6,676	6,701
Stone, clay, and glass products.....	24,382	25,063	25,403	25,636	25,870	26,103	25,494	25,727	25,960	26,193	26,426	26,659
Textile mill products.....	19,179	19,319	19,459	19,599	19,739	19,879	19,459	19,599	19,739	19,879	19,999	20,139
Apparel and accessories.....	27,024	27,024	27,024	27,024	27,024	27,024	27,024	27,024	27,024	27,024	27,024	27,024
Electrical machinery.....	38,768	38,768	38,768	38,768	38,768	38,768	38,768	38,768	38,768	38,768	38,768	38,768
Transportation equipment.....	9,303	9,303	9,303	9,303	9,303	9,303	9,303	9,303	9,303	9,303	9,303	9,303
Instruments and related products.....	14,718	14,718	14,718	14,718	14,718	14,718	14,718	14,718	14,718	14,718	14,718	14,718
Nondurable goods industries.....	21,039	21,039	21,039	21,039	21,039	21,039	21,039	21,039	21,039	21,039	21,039	21,039
Food and kindred products.....	9,069	9,069	9,069	9,069	9,069	9,069	9,069	9,069	9,069	9,069	9,069	9,069
Textile mill products, n.e.c.....	6,069	6,069	6,069	6,069	6,069	6,069	6,069	6,069	6,069	6,069	6,069	6,069
Rubber and plastics products, n.e.c.....	54,880	55,309	55,867	56,451	57,035	57,619	56,111	56,695	57,279	57,863	58,447	59,031
All other nondurable goods industries.....	52,694	53,168	53,643	54,117	54,591	55,065	53,448	53,922	54,396	54,870	55,344	55,818
INTERMEDIATE AND SUPPLIES	55,002	55,996	56,990	57,984	58,978	59,972	56,981	57,975	58,969	59,963	60,957	61,951
All manufacturing industries.....	2,220	2,220	2,220	2,220	2,220	2,220	2,220	2,220	2,220	2,220	2,220	2,220
Stone, clay, and glass products.....	9,335	9,335	9,335	9,335	9,335	9,335	9,335	9,335	9,335	9,335	9,335	9,335
Textile mill products.....	11,388	11,673	11,695	11,720	11,745	11,770	11,745	11,770	11,795	11,820	11,845	11,870
Nonferrous metal products.....	7,485	7,485	7,485	7,485	7,485	7,485	7,485	7,485	7,485	7,485	7,485	7,485
Electrical machinery.....	10,346	10,346	10,346	10,346	10,346	10,346	10,346	10,346	10,346	10,346	10,346	10,346
Transportation equipment.....	5,577	5,577	5,577	5,577	5,577	5,577	5,577	5,577	5,577	5,577	5,577	5,577
Instruments and related products.....	36,992	37,172	37,486	37,701	37,899	38,114	37,387	37,602	37,817	38,032	38,247	38,462
Nondurable goods industries.....	8,158	8,039	8,104	8,169	8,235	8,300	8,137	8,202	8,267	8,332	8,397	8,462
Chemicals and allied products.....	2,410	2,405	2,375	2,452	2,529	2,606	2,465	2,542	2,619	2,696	2,773	2,850
Petroleum and coal products.....	24,216	24,365	24,727	24,912	25,166	25,382	24,692	24,912	25,166	25,420	25,674	25,928
Rubber and plastics products, n.e.c.....	8,158	8,121	8,194	8,172	8,248	8,324	8,048	8,124	8,200	8,276	8,352	8,428
All other nondurable goods industries.....	96,766	96,722	97,163	97,338	97,889	98,170	96,450	96,813	97,174	97,535	97,896	98,257
WORK IN PROCESS	81,286	81,286	81,286	81,286	81,286	81,286	81,286	81,286	81,286	81,286	81,286	81,286
All manufacturing industries.....	9,106	10,109	10,109	10,109	10,109	10,109	9,106	10,109	10,109	10,109	10,109	10,109
Durable goods industries.....	7,106	7,106	7,106	7,106	7,106	7,106	7,106	7,106	7,106	7,106	7,106	7,106
Textile mill products.....	18,382	18,466	18,501	18,423	18,335	18,247	18,335	18,423	18,501	18,585	18,669	18,753
Nonferrous metal products.....	24,116	24,365	24,365	24,365	24,365	24,365	24,365	24,365	24,365	24,365	24,365	24,365
Transportation equipment.....	4,124	4,124	4,124	4,124	4,124	4,124	4,124	4,124	4,124	4,124	4,124	4,124
Instruments and related products.....	3,125	3,186	3,218	3,203	3,191	3,285	3,168	3,202	3,215	3,228	3,241	3,254
Nondurable goods industries.....	15,400	15,400	15,400	15,400	15,400	15,400	15,400	15,400	15,400	15,400	15,400	15,400
Chemicals and allied products.....	2,320	2,320	2,320	2,320	2,320	2,320	2,320	2,320	2,320	2,320	2,320	2,320
Petroleum and coal products, n.e.c.....	8,064	8,121	8,194	8,172	8,248	8,324	8,048	8,124	8,200	8,276	8,352	8,428
Rubber and plastics products, n.e.c.....	8,064	8,121	8,194	8,172	8,248	8,324	8,048	8,124	8,200	8,276	8,352	8,428
All other nondurable goods industries.....	85,918	86,559	87,191	88,492	89,793	91,094	88,448	89,053	89,658	90,263	90,868	91,473
FINISHED GOODS	47,554	47,554	47,554	47,554	47,554	47,554	47,554	47,554	47,554	47,554	47,554	47,554
All manufacturing industries.....	3,755	3,755	3,755	3,755	3,755	3,755	3,755	3,755	3,755	3,755	3,755	3,755
Durable goods industries.....	6,231	6,231	6,231	6,231	6,231	6,231	6,231	6,231	6,231	6,231	6,231	6,231
Textile mill products.....	12,388	12,388	12,388	12,388	12,388	12,388	12,388	12,388	12,388	12,388	12,388	12,388
Electrical machinery.....	5,663	5,784	5,867	5,901	5,985	6,069	5,867	5,901	5,985	6,069	6,153	6,237
Transportation equipment.....	4,659	4,622	4,793	4,777	4,857	4,937	4,857	4,937	5,017	5,097	5,177	5,257
Instruments and related products.....	2,431	2,408	2,408	2,408	2,408	2,408	2,408	2,408	2,408	2,408	2,408	2,408
Nondurable goods industries.....	38,768	38,768	38,768	38,768	38,768	38,768	38,768	38,768	38,768	38,768	38,768	38,768
Food and kindred products.....	4,218	4,218	4,218	4,218	4,218	4,218	4,218	4,218	4,218	4,218	4,218	4,218
Textile mill products, n.e.c.....	2,743	2,754	2,773	2,792	2,811	2,830	2,792	2,811	2,830	2,849	2,868	2,887
Rubber and plastics products, n.e.c.....	22,700	22,623	22,946	23,207	23,469	23,731	22,946	23,207	23,469	23,731	23,993	24,255
All other nondurable goods industries.....	85,918	86,559	87,191	88,492	89,793	91,094	88,448	89,053	89,658	90,263	90,868	91,473
PRELIMINARY	85,918	86,559	87,191	88,492	89,793	91,094	88,448	89,053	89,658	90,263	90,868	91,473
All manufacturing industries.....	47,554	47,554	47,554	47,554	47,554	47,554	47,554	47,554	47,554	47,554	47,554	47,554
Durable goods industries.....	3,755	3,755	3,755	3,755	3,755	3,755	3,755	3,755	3,755	3,755	3,755	3,755
Textile mill products.....	6,231	6,231	6,231	6,231	6,231	6,231	6,231	6,231	6,231	6,231	6,231	6,231
Electrical machinery.....	5,663	5,784	5,867	5,901	5,985	6,069	5,867	5,901	5,985	6,069	6,153	6,237
Transportation equipment.....	4,659	4,622	4,793	4,777	4,857	4,937	4,857	4,937	5,017	5,097	5,177	5,257
Instruments and related products.....	2,431	2,408	2,408	2,408	2,408	2,408	2,408	2,408	2,408	2,408	2,408	2,408
Nondurable goods industries.....	38,768	38,768	38,768	38,768	38,768	38,768	38,768	38,768	38,768	38,768	38,768	38,768
Food and kindred products.....	4,218	4,218	4,218	4,218	4,218	4,218	4,218	4,218	4,218	4,218	4,218	4,218
Textile mill products, n.e.c.....	2,743	2,754	2,773	2,792	2,811	2,830	2,792	2,811	2,830	2,849	2,868	2,887
Rubber and plastics products, n.e.c.....	22,700	22,623	22,946	23,207	23,469	23,731	22,946	23,207	23,469	23,731	23,993	24,255
All other nondurable goods industries.....	85,918	86,559	87,191	88,492	89,793	91,094	88,448	89,053	89,658	90,263	90,868	91,473

Preliminary.

Inventories and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfinished orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

Table 6. MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS--MONTH-TO-MONTH AND LONG-TERM PERCENT CHANGES

(Based on seasonally adjusted data)

Item and industry group	Month-to-month						Revisions ¹		
	May-June 1982	April-May 1982	March-April 1982	February-March 1982	January-Feb. 1982	Dec. 1981-Jan. 1982	Year ending June 1981	Average monthly	
								June 1981 through May 1982	June 1977-1981
Shipments:									
All manufacturing industries.....	+0.1	+2.9	-0.9	-0.4	+2.0	-2.9	0.4	0.3	0.5
Durable goods industries.....	-0.8	+2.9	-1.3	+0.2	+3.2	-4.5	0.3	0.4	0.2
Nondurable goods industries.....	+1.0	+3.0	-0.5	-1.0	+0.9	-1.3	0.3	0.3	0.5
Inventories:									
All manufacturing industries.....	-0.5	-0.9	-0.4	-0.6	+0.2	-0.7	0.2	0.1	1.8
New orders:									
All manufacturing industries.....	-0.3	+1.0	-1.0	+0.8	+0.9	-1.4	0.0	0.3	0.3
Durable goods industries.....	-1.9	-1.0	-1.2	+2.0	+1.7	-1.8	0.2	0.7	0.3
Nondurable goods industries.....	+1.3	+2.9	-0.7	-0.4	+0.3	-1.0	0.3	0.3	0.5
Unfilled orders:									
Durable goods industries.....	-1.3	-1.1	-0.1	-0.1	-0.5	-0.2	0.2	0.1	0.1

- Represents zero.

¹The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences to the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio						Unfilled orders--shipments ratio ¹ (months' backlog)					
	Jun. 1982 ^b	May 1982	Apr. 1982	Mar. 1982	Feb. 1982	Jan. 1982	Jun. 1982 ^b	May 1982	Apr. 1982	Mar. 1982	Feb. 1982	Jan. 1982
All manufacturing industries.....	1.71	1.72	1.79	1.78	1.78	1.81	3.72	3.73	3.86	3.76	3.78	3.90
Durable goods industries.....	2.34	2.33	2.41	2.38	2.40	2.48	4.54	4.54	4.71	4.61	4.62	4.76
Stone, clay, and glass products.....	1.71	1.66	1.74	1.71	1.75	1.70	0.54	0.52	0.54	0.54	0.58	0.60
Primary metals.....	2.84	2.89	2.84	2.95	2.72	2.59	2.55	2.55	2.50	2.63	2.55	2.57
Fabricated metals.....	1.99	1.95	2.02	2.03	2.11	2.20	2.97	2.92	3.12	3.20	3.29	3.49
Machinery, except electrical.....	2.87	2.80	2.88	2.66	2.68	2.78	4.43	4.46	4.68	4.34	4.52	4.80
Electrical machinery.....	2.34	2.27	2.34	2.39	2.42	2.48	4.73	4.58	4.68	4.67	4.59	4.69
Transportation equipment.....	2.21	2.25	2.43	2.41	2.52	2.75	10.91	11.23	12.41	11.88	12.20	13.13
Instruments and related products.....	2.40	2.33	2.49	2.38	2.42	2.51	1.82	1.85	1.95	1.87	1.85	1.89
Nondurable goods industries.....	1.11	1.13	1.18	1.18	1.18	1.18	0.54	0.55	0.57	0.55	0.56	0.60
Food and kindred products.....	0.85	0.87	0.91	0.91	0.90	0.93	(X)	(X)	(X)	(X)	(X)	(X)
Tobacco products.....	3.48	4.27	4.16	4.14	3.97	3.95	(X)	(X)	(X)	(X)	(X)	(X)
Textile mill products.....	1.49	1.57	1.61	1.55	1.62	1.73	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.36	1.39	1.37	1.35	1.34	1.29	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.48	1.48	1.55	1.55	1.52	1.56	(X)	(X)	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.52	0.52	0.59	0.67	0.66	0.61	(X)	(X)	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.58	1.71	1.76	1.80	1.75	1.68	(X)	(X)	(X)	(X)	(X)	(X)

(NA) Not available. ^bPreliminary. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

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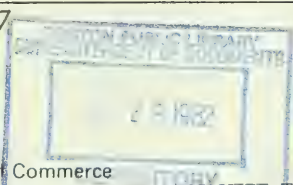
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U.S. Department of Commerce
BUREAU OF THE CENSUS



Manufacturers' Shipments, Inventories, and Orders

JULY 1982

M3-1(82)-7

FOR WIRE TRANSMISSION 3:30 P.M. EDT, TUESDAY, AUGUST 31, 1982

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in July increased \$3.1 billion or 2.0 percent from June to \$160.2 billion. Although this is the largest monthly increase since December 1980, the value of new orders was 7 percent below the July 1981 peak of \$172.1 billion. Shipments of manufactured goods increased \$1.0 billion or 0.6 percent in July to \$162.5 billion, following increases in May and June of 3.0 percent and 0.4 percent, respectively.

The backlog of manufacturers' orders was valued at \$303.7 billion at the end of July, down \$2.4 billion or 0.8 percent from June. This is the 12th consecutive monthly decline in backlog, 7.7 percent below the peak in July 1981 of \$328.9 billion. The book value of manufacturers' inventories at the end of July was \$275.2 billion, showing little change from June. Prior to this, inventories had declined 6 of the last 7 months.

New orders for the durable goods sector were up \$3.0 billion or 4.0 percent in July to \$77.5 billion, revised upward from the earlier reported 3.2 percent increase. Most of the major industries contributed to the July increase. New orders for transportation equipment were up \$1.2 billion or 7.5 percent to \$17.6 billion, with increases in both the aircraft and motor vehicle industries. New orders for electrical machinery increased \$0.7 billion or 6.0 percent to \$12.4 billion, while orders for nonelectrical machinery increased \$0.4 billion or 3.1 percent to \$13.4 billion. New orders for primary metals increased \$0.1 billion or 1.4 percent to \$8.7 billion. Following a steady decline in this series from July 1981 to March 1982, orders for primary metals have now increased 4 consecutive months. The steel industry accounted for this month's increase.

New orders for nondefense capital goods increased \$1.5 billion or 7.7 percent to \$20.8 billion, following declines in May of 10.1 percent and June of 5.2 percent. New orders for defense capital goods were down \$0.8 billion or 14.8 percent to \$4.6 billion, following a 13.9 percent increase last month.

Shipments of durable goods in July increased \$0.8 billion or 1.1 percent to \$79.7 billion. The largest increases were in the electrical machinery and transportation equipment categories. Electrical machinery shipments were up \$0.5 billion or 3.9

percent to \$12.1 billion with most of the increase occurring in the communication equipment industry. Shipments of transportation equipment were up \$0.4 billion or 2.4 percent to \$18.0 billion. An increase in the motor vehicle and parts category of \$0.6 billion or 6.1 percent to \$11.1 billion was partially offset by a decline in the aircraft and parts category of \$0.3 billion or 5.7 percent to \$5.4 billion.

Shipments of nondurable goods in July increased \$0.2 billion or 0.2 percent to \$82.8 billion. Shipments by the tobacco products industry have shown unusual fluctuation the last 2 months with a July decline of 24 percent following a June increase of 20 percent. Excluding the tobacco category, shipments of nondurable goods increased 0.6 percent with the largest increases occurring in the foods, apparel, and paper products industries.

The decline in the backlog of orders of durable goods manufacturers of \$2.2 billion or 0.7 percent to \$294.7 billion reflected declines in several major industries. The largest decline was in the nonelectrical machinery category which was down \$1.7 billion or 2.6 percent to \$61.8 billion. Unfilled orders for transportation equipment and fabricated metal products were each down \$0.4 billion.

The book value of inventories of durable goods manufacturers declined \$0.5 billion or 0.3 percent to \$183.3 billion, offsetting a \$0.5 billion or 0.6 percent increase to \$91.4 billion in inventories of nondurable goods manufacturers. For durable goods manufacturers, inventories have declined 7 of the last 8 months from a high of \$190.2 billion last November. For nondurable goods manufacturers, prior to this month's increase, inventories had also been declining since November, except for a 0.5 percent increase in February.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for August is scheduled for release on September 22, 1982, and full report is scheduled for release on October 1, 1982.

The method of seasonally adjusting shipments data for the motor vehicle assembly industry for July through September has been changed this year and is now consistent with the traditional X-11 approach followed for other industry categories in the survey. Previously, an estimated seasonally-adjusted monthly average for the third quarter was used in each of the 3 months to compensate for the erratic monthly movements which occurred during this model changeover period. The change in procedure was made because the seasonal pattern in the data has become somewhat more stable, and the data series subject to smaller historical revisions.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

Table 1. VALUE OF MANUFACTURES' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	Seasonally adjusted										Not seasonally adjusted ¹										Year-to-date	
		Monthly					Quarterly					Monthly											
		1982 ²					1981					1982					1981					1982	1981
		July	Aug.	Sept.	Oct.	Nov.	I	II	III	IV	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.			
TOTALS																							
	All manufacturing industries.....	162,518	161,519	160,418	136,114	479,481	27,184	48,013	1,812,139	181,341	138,038	155,918	174,317	169,137	170,185	137,809	1,169,225						
	Manufacturing industries excluding transportation.....	142,842	142,314	140,108	120,108	477,238	25,978	47,197	133,666	143,537	141,169	141,118	159,295	150,000	151,597	993,493	1,042,826						
	Manufacturing industries with unfilled orders.....	83,499	82,596	81,716	200,414	200,414	200,414	200,414	200,414	200,414	200,414	200,414	200,414	200,414	200,414	200,414	200,414						
	Durable goods industries.....	79,765	79,488	77,116	231,362	231,362	231,362	231,362	231,362	231,362	231,362	231,362	231,362	231,362	231,362	231,362	231,362						
	Durable goods with unfilled orders.....	68,175	67,889	66,411	197,484	197,484	197,484	197,484	197,484	197,484	197,484	197,484	197,484	197,484	197,484	197,484	197,484						
	Nondurable goods industries.....	82,803	82,611	81,113	78,978	200,414	139,132	200,414	200,414	200,414	200,414	200,414	200,414	200,414	200,414	200,414	200,414						
	Nondurable goods with unfilled orders.....	17,774	16,990	16,985	11,827	100,414	31,478	100,414	100,414	100,414	100,414	100,414	100,414	100,414	100,414	100,414	100,414						
MARKET CATEGORIES																							
	Household and apparel.....	11,192	10,838	10,803	11,738	32,869	32,869	32,869	32,869	32,869	32,869	32,869	32,869	32,869	32,869	32,869	32,869						
	Consumer staples.....	31,058	31,043	30,810	29,578	90,411	86,725	86,725	86,725	86,725	86,725	86,725	86,725	86,725	86,725	86,725	86,725						
	Equipment and defense products, except automotive.....	24,443	24,451	25,088	23,497	71,004	71,004	71,004	71,004	71,004	71,004	71,004	71,004	71,004	71,004	71,004	71,004						
	Automotive equipment.....	12,773	11,774	11,681	11,462	42,637	28,438	28,438	28,438	28,438	28,438	28,438	28,438	28,438	28,438	28,438	28,438						
	Construction materials, supplies, and intermediate products.....	12,250	11,720	12,038	11,446	41,226	41,226	41,226	41,226	41,226	41,226	41,226	41,226	41,226	41,226	41,226	41,226						
	Other materials, supplies, and intermediate products.....	71,117	71,673	70,920	69,393	211,746	177,238	222,172	183,149	183,149	183,149	183,149	183,149	183,149	183,149	183,149	183,149						
SUPPLEMENTARY SERIES ²																							
	Household durable goods industries.....	5,178	4,914	4,806	4,847	14,604	14,604	14,604	14,604	14,604	14,604	14,604	14,604	14,604	14,604	14,604	14,604						
	Capital goods industries.....	27,421	27,727	28,160	26,489	82,716	82,716	82,716	82,716	82,716	82,716	82,716	82,716	82,716	82,716	82,716	82,716						
	Nondefense.....	22,649	22,906	23,271	21,559	68,736	68,736	68,736	68,736	68,736	68,736	68,736	68,736	68,736	68,736	68,736	68,736						
	Defense.....	4,772	4,821	4,889	4,930	13,978	13,978	13,978	13,978	13,978	13,978	13,978	13,978	13,978	13,978	13,978	13,978						
INDUSTRY GROUPS AND INDUSTRIES																							
	Durable goods industries:																						
	Stone, clay, and glass products.....	9,811	9,834	9,738	11,425	31,738	31,738	31,738	31,738	31,738	31,738	31,738	31,738	31,738	31,738	31,738	31,738						
	Primary metals.....	8,427	8,465	8,400	8,953	29,313	29,313	29,313	29,313	29,313	29,313	29,313	29,313	29,313	29,313	29,313	29,313						
	Primary nonferrous metals.....	3,716	3,989	3,904	4,156	12,047	12,047	12,047	12,047	12,047	12,047	12,047	12,047	12,047	12,047	12,047	12,047						
	Nonferrous and other primary metals.....	3,921	3,772	3,694	3,952	11,618	11,618	11,618	11,618	11,618	11,618	11,618	11,618	11,618	11,618	11,618	11,618						
	Fabricated metal products.....	10,934	10,940	10,996	10,736	34,716	34,716	34,716	34,716	34,716	34,716	34,716	34,716	34,716	34,716	34,716	34,716						
	Chemicals, plastics, and allied products.....	865	875	875	915	2,720	2,720	2,720	2,720	2,720	2,720	2,720	2,720	2,720	2,720	2,720	2,720						
	Machinery, except electrical.....	15,077	15,488	15,432	16,419	49,094	49,094	49,094	49,094	49,094	49,094	49,094	49,094	49,094	49,094	49,094	49,094						
	Engines and turbines.....	1,133	1,152	1,109	1,296	3,657	3,657	3,657	3,657	3,657	3,657	3,657	3,657	3,657	3,657	3,657	3,657						
	Parm machinery and equipment.....	977	986	1,009	1,009	3,103	3,103	3,103	3,103	3,103	3,103	3,103	3,103	3,103	3,103	3,103	3,103						
	Construction, mining, and electrical equipment.....	2,287	2,279	2,315	2,788	8,539	8,539	8,539	8,539	8,539	8,539	8,539	8,539	8,539	8,539	8,539	8,539						
	Metallurgical equipment.....	882	882	880	896	2,617	2,617	2,617	2,617	2,617	2,617	2,617	2,617	2,617	2,617	2,617	2,617						
	General industrial machinery.....	1,274	1,194	1,205	1,244	3,743	4,004	4,413	4,413	4,413	4,413	4,413	4,413	4,413	4,413	4,413	4,413						

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)																
		Seasonally adjusted						Not seasonally adjusted ¹										
		Monthly		Quarterly		Last 4 months		Monthly		Last 4 months a year ago		Year-to-date						
July 1982 ²	Aug. 1982 ²	I 1982 ²	IV 1981 ²	July 1982 ²	Aug. 1982 ²	July 1981 ²	Aug. 1982 ²	July 1981 ²	Aug. 1982 ²	May 1981 ²	June 1981 ²	Apr. 1981 ²	1981 ²					
	INDUSTRY GROUPS AND INDUSTRIES--Continued																	
	Durable goods and industries--Continued																	
35	Electrical machinery.....	12,089	11,639	11,912	11,677	35,228	34,170	34,285	10,639	12,354	11,716	11,622	10,463	12,452	11,493	11,377	80,521	79,169
36	Electrical transmission and distribution equipment and apparatus.....	1,735	1,715	1,777	1,740	5,222	5,307	5,509	1,507	1,868	1,810	1,766	1,645	2,049	1,896	1,860	13,337	13,911
36	Household appliances.....	1,065	1,035	1,037	1,039	3,105	3,016	3,087	1,008	1,128	1,022	1,029	1,104	1,131	1,138	1,167	7,445	8,092
36	Radio and TV.....	741	697	723	673	2,095	2,028	1,984	596	769	609	574	591	667	647	648	4,828	4,873
36	Communication equipment.....	4,006	3,833	3,833	3,833	11,352	10,995	10,609	3,508	4,034	3,846	3,914	3,182	3,769	3,456	3,411	26,258	23,459
36	Electronic components.....	2,539	2,484	2,513	2,468	7,465	7,192	7,192	2,280	2,556	2,488	2,533	2,182	2,336	2,469	2,459	17,034	16,524
37	Transportation equipment.....	17,986	17,573	17,314	15,945	50,832	44,894	47,817	14,913	18,983	18,004	18,689	14,801	20,072	18,737	18,588	124,312	121,394
37	Motor vehicles and parts.....	11,051	10,420	10,109	9,509	30,638	28,477	29,594	8,316	11,361	10,682	10,597	8,627	11,942	11,235	10,959	69,381	71,594
37	Aircraft, missiles, and parts.....	5,355	5,081	5,590	4,912	10,183	15,246	16,970	4,962	6,078	5,640	4,991	4,864	6,035	5,486	5,602	37,461	37,461
37	Shipbuilding and military tank vehicles.....	987	929	994	900	2,823	2,839	2,837	951	968	1,047	882	948	1,047	1,012	974	6,563	6,776
37	Instruments and related products.....	3,977	4,007	3,988	3,876	11,820	11,438	11,993	3,583	4,385	3,936	3,758	3,613	4,291	3,931	3,862	26,963	27,356
38	Chemical and allied products.....	2,383	2,434	2,316	2,218	6,868	6,972	7,291	2,100	2,492	2,315	2,255	2,126	2,588	2,455	2,383	13,337	14,171
38	Scientific and engineering instruments.....	1,362	1,453	1,408	1,379	4,240	3,974	3,974	1,271	1,565	1,382	1,310	1,251	1,445	1,360	1,293	9,237	9,201
38	Photographic goods.....																	
38	All other durable goods industries.....	8,262	7,859	7,764	7,826	23,449	23,472	23,695	7,552	8,192	7,901	7,943	7,804	9,085	8,647	8,909	53,965	58,211
	Non-durable goods industries:																	
20	Food and kindred products.....	23,484	23,315	23,018	22,302	68,635	67,182	65,326	21,857	23,812	22,721	21,811	21,401	23,402	21,973	22,494	156,735	156,270
20	Meat products.....	6,310	6,426	6,296	5,961	18,683	17,285	17,428	5,969	6,285	6,321	5,804	5,815	5,977	5,800	5,649	41,538	40,215
20	Beverages.....	3,066	3,002	3,112	3,201	9,315	9,222	8,287	3,410	3,437	3,236	3,215	3,202	3,261	3,259	2,885	23,407	22,047
20	Fats and oils.....	1,440	1,490	1,406	1,416	4,312	4,305	4,362	1,435	1,430	1,341	1,399	1,408	1,424	1,429	1,406	9,883	11,051
20	Starches.....	1,440	1,490	1,406	1,416	4,312	4,305	4,362	1,435	1,430	1,341	1,399	1,408	1,424	1,429	1,406	9,883	11,051
20	All other products.....	1,021	1,317	1,138	1,157	3,936	3,936	3,936	1,021	1,138	1,138	1,138	1,138	1,138	1,138	1,138	7,716	7,716
26	Textile mill products.....	4,168	4,217	4,168	4,056	12,423	13,099	12,452	3,487	4,542	4,209	4,079	3,856	4,483	4,533	4,362	28,423	30,144
26	Paper and allied products.....	6,601	6,475	6,346	6,263	19,234	19,914	20,007	6,196	6,727	6,427	6,518	6,339	6,868	6,983	6,734	46,421	44,514
26	Pulp, paper, etc.....	2,680	2,677	2,619	2,692	7,988	8,499	8,380	2,529	2,810	2,721	2,765	2,470	2,947	2,906	2,906	19,358	20,014
26	Paperboard containers.....	1,558	1,528	1,460	1,465	4,453	4,539	4,631	1,442	1,712	1,477	1,505	1,509	1,665	1,589	1,595	10,568	10,988
26	All other paper products.....	2,560	2,570	2,566	2,566	6,767	6,896	6,996	2,143	2,765	2,626	2,646	2,626	2,765	2,808	2,808	16,607	16,976
28	Chemical and allied products:	14,523	14,595	14,536	13,751	42,483	41,958	41,724	13,169	15,360	14,629	14,562	13,655	15,605	15,114	15,339	100,633	106,861
28	Industrial chemicals, ex-																	
28	cept pigments.....	4,568	4,626	4,538	4,425	13,589	13,601	14,724	4,203	4,825	4,652	4,734	4,847	5,438	5,294	5,413	32,486	36,478
28	Drugs, soap, and toiletries.....	4,316	4,276	3,956	3,923	12,155	11,131	11,007	3,965	4,672	3,660	3,767	3,351	3,877	3,384	3,384	27,076	25,118
28	Petroleum and coal products.....	17,516	17,592	17,382	16,494	51,468	48,713	54,560	17,190	17,770	17,287	16,194	17,965	18,683	18,337	17,757	117,816	126,016
28	Rubber and plastics products, n.e.c.....	3,853	3,762	3,569	3,500	10,831	10,580	11,538	3,511	3,998	3,592	3,648	3,714	4,217	3,903	4,123	25,599	27,438
30	All other non-durable goods industries.....	11,617	11,374	11,583	11,252	36,209	35,278	34,738	11,134	11,350	11,031	10,498	11,419	11,536	10,734	11,074	78,275	77,039

Preliminary.

Revised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unutilized orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

²These supplementary series are groupings of the separate industry categories as follows:

Non-durable goods industries--Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; radio and TV; optical goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the W-175. Shipments to Federal Government agencies (formerly Shipments of defense-oriented industries), for the specified industries.

TABLE 2. VALUE OF MANUFACTURES: NEW ORDERS FROM INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

Industry	Seasonally adjusted										Not seasonally adjusted ¹									
	Monthly					Quarterly					Monthly					Year-to-date				
	1982					1981					1982					1981				
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb
TOTALS																				
All manufacturing industries, excluding transportation, excluding government, and manufacturing industries with unfilled orders.....	160,171	137,058	136,794	136,995	146,966	149,772	147,836	142,098	142,098	142,098	142,098	142,098	142,098	142,098	142,098	142,098	142,098	142,098	142,098	142,098
Durable goods industries.....	77,498	74,550	74,550	74,550	74,550	74,550	74,550	74,550	74,550	74,550	74,550	74,550	74,550	74,550	74,550	74,550	74,550	74,550	74,550	74,550
Durable goods with unfilled orders.....	63,998	61,531	62,893	63,968	63,968	63,968	63,968	63,968	63,968	63,968	63,968	63,968	63,968	63,968	63,968	63,968	63,968	63,968	63,968	63,968
Nondurable goods industries.....	82,673	62,508	62,241	62,241	62,241	62,241	62,241	62,241	62,241	62,241	62,241	62,241	62,241	62,241	62,241	62,241	62,241	62,241	62,241	62,241
Industries with unfilled orders.....	17,054	14,667	16,736	16,653	16,653	16,653	16,653	16,653	16,653	16,653	16,653	16,653	16,653	16,653	16,653	16,653	16,653	16,653	16,653	16,653
Industries without unfilled orders.....	65,779	65,641	65,641	65,641	65,641	65,641	65,641	65,641	65,641	65,641	65,641	65,641	65,641	65,641	65,641	65,641	65,641	65,641	65,641	65,641
MARKET CATEGORIES																				
Home goods and apparel.....	11,059	10,964	11,060	11,067	11,067	11,067	11,067	11,067	11,067	11,067	11,067	11,067	11,067	11,067	11,067	11,067	11,067	11,067	11,067	11,067
Transportation, equipment, and defense products, except automotive.....	31,023	31,070	30,340	29,447	29,447	29,447	29,447	29,447	29,447	29,447	29,447	29,447	29,447	29,447	29,447	29,447	29,447	29,447	29,447	29,447
Automotive equipment.....	22,907	23,179	22,176	23,480	23,480	23,480	23,480	23,480	23,480	23,480	23,480	23,480	23,480	23,480	23,480	23,480	23,480	23,480	23,480	23,480
Construction materials, supplies, and intermediate products.....	12,786	11,887	11,198	10,625	10,625	10,625	10,625	10,625	10,625	10,625	10,625	10,625	10,625	10,625	10,625	10,625	10,625	10,625	10,625	10,625
Nonmetallic mineral products, and intermediate products.....	1,212	1,184	1,192	1,191	1,191	1,191	1,191	1,191	1,191	1,191	1,191	1,191	1,191	1,191	1,191	1,191	1,191	1,191	1,191	1,191
Supplementary series ²	70,386	68,574	70,342	67,937	69,858	69,360	69,360	69,360	69,360	69,360	69,360	69,360	69,360	69,360	69,360	69,360	69,360	69,360	69,360	69,360
HOUSEHOLD DURABLE GOODS INDUSTRIES																				
Household durable goods industries.....	5,038	5,006	5,006	5,006	5,006	5,006	5,006	5,006	5,006	5,006	5,006	5,006	5,006	5,006	5,006	5,006	5,006	5,006	5,006	5,006
Capital goods industries.....	20,701	20,715	20,715	20,715	20,715	20,715	20,715	20,715	20,715	20,715	20,715	20,715	20,715	20,715	20,715	20,715	20,715	20,715	20,715	20,715
Nondefense.....	4,637	5,037	4,775	6,174	6,174	6,174	6,174	6,174	6,174	6,174	6,174	6,174	6,174	6,174	6,174	6,174	6,174	6,174	6,174	6,174
INDUSTRY GROUPS AND INDUSTRIES																				
Durable goods industries																				
Stone, clay, and glass.....	3,794	3,877	3,877	3,877	3,877	3,877	3,877	3,877	3,877	3,877	3,877	3,877	3,877	3,877	3,877	3,877	3,877	3,877	3,877	3,877
Primary metals.....	8,741	8,617	8,617	8,617	8,617	8,617	8,617	8,617	8,617	8,617	8,617	8,617	8,617	8,617	8,617	8,617	8,617	8,617	8,617	8,617
Blast furnaces, steel mills.....	4,125	3,789	3,789	3,789	3,789	3,789	3,789	3,789	3,789	3,789	3,789	3,789	3,789	3,789	3,789	3,789	3,789	3,789	3,789	3,789
Nonferrous and other primary metal products.....	3,867	3,939	3,939	3,939	3,939	3,939	3,939	3,939	3,939	3,939	3,939	3,939	3,939	3,939	3,939	3,939	3,939	3,939	3,939	3,939
Textile mill products.....	9,611	9,189	9,189	9,189	9,189	9,189	9,189	9,189	9,189	9,189	9,189	9,189	9,189	9,189	9,189	9,189	9,189	9,189	9,189	9,189
Machinery, except electrical.....	13,417	13,015	14,408	15,252	15,252	15,252	15,252	15,252	15,252	15,252	15,252	15,252	15,252	15,252	15,252	15,252	15,252	15,252	15,252	15,252
Engines and turbines.....	806	952	1,138	1,138	1,138	1,138	1,138	1,138	1,138	1,138	1,138	1,138	1,138	1,138	1,138	1,138	1,138	1,138	1,138	1,138
Construction, mining, and material-handling equipment.....	2,479	2,528	2,528	2,528	2,528	2,528	2,528	2,528	2,528	2,528	2,528	2,528	2,528	2,528	2,528	2,528	2,528	2,528	2,528	2,528
Transportation equipment.....	6,440	6,440	6,440	6,440	6,440	6,440	6,440	6,440	6,440	6,440	6,440	6,440	6,440	6,440	6,440	6,440	6,440	6,440	6,440	6,440
General industrial machinery.....	1,118	1,118	1,118	1,118	1,118	1,118	1,118	1,118	1,118	1,118	1,118	1,118	1,118	1,118	1,118	1,118	1,118	1,118	1,118	1,118

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)									
		Seasonally adjusted					Not seasonally adjusted ¹				
		Monthly		Quarterly		IV 1981	Monthly				Year-to-date
		July 1982 ²	June 1982 ²	May 1982 ²	April 1982		July 1982 ²	June 1982 ²	May 1982 ²	April 1982	
36	Electrical machinery.....	12,409	11,705	11,888	12,508	36,101	10,668	12,106	11,532	12,471	82,899
361,2	Household appliances, except refrigerators, air conditioning distribution equipment and industrial apparatus.....	1,693	1,396	1,738	1,490	4,624	1,421	1,470	1,739	1,630	11,645
363	Household appliances.....	1,056	1,007	1,050	1,029	3,086	1,026	1,112	1,035	1,026	11,645
365	Radio and TV.....	697	653	918	590	2,161	366	831	769	467	7,201
366	Communication equipment.....	4,368	4,368	3,352	5,012	12,932	1,693	4,349	3,466	4,537	4,509
37	Transportation equipment.....	17,581	16,347	16,011	16,593	48,193	13,744	17,019	13,895	12,471	25,608
372,6	Aircraft, missiles, and parts.....	5,159	4,560	4,854	5,779	15,193	4,341	4,812	4,426	5,411	17,482
3731	Shipbuilding and military aerospace.....	627	877	711	1,092	2,680	157	469	439	1,238	11,352
3735	Trucks and related products.....	4,005	3,767	3,896	3,920	11,583	3,580	4,142	3,770	3,876	39,447
24	All other durable goods industries.....	7,978	7,918	7,772	7,161	22,831	7,366	8,194	7,956	7,472	54,281
25											
39											

Preliminary.

¹Revised.

²Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The separate industry categories are as follows:

Household durable goods industries--Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances, radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

The data are comparable to those published annually in the MA-175. Shipments to federal government agencies (formerly Shipments of defense-oriented industries), for the specified industries.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	Seasonally adjusted												Not seasonally adjusted ¹														
		Monthly						Quarterly			Last 4 months						Monthly						Last 4 months a year ago					
		July 1982P	June 1982P	May 1982P	April 1982	I 1982	IV 1981	III 1981	II 1981	I 1981	July 1982P	June 1982P	May 1982P	April 1982	March 1982	June 1981	May 1981	April 1981	March 1981	June 1980	May 1980	April 1980	March 1980	June 1979	May 1979	April 1979	March 1979	
		(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)	(billions of dollars)
	TOTALS																											
	All manufacturing industries.....	303,672	306,032	310,482	314,521	315,639	318,621	327,935	327,105	323,054	302,077	305,894	312,234	318,318	327,359	326,927	324,207	321,411	312,794	312,794	312,794	312,794	312,794	312,794	312,794	312,794	312,794	312,794
	Manufacturing industries excluding transportation.....	187,422	189,389	192,606	195,342	197,110	204,912	211,164	211,677	207,473	187,569	190,129	194,584	198,679	212,274	212,411	212,411	212,411	212,411	212,411	212,411	212,411	212,411	212,411	212,411	212,411	212,411	212,411
	Durable goods industries.....	294,677	296,886	301,194	305,004	305,947	308,370	316,841	315,618	312,018	299,105	296,655	302,762	308,236	315,995	315,995	315,995	315,995	315,995	315,995	315,995	315,995	315,995	315,995	315,995	315,995	315,995	315,995
	Nondurable goods industries.....	8,995	9,146	9,288	9,518	9,692	10,251	11,114	11,487	11,036	8,972	9,239	9,652	9,782	11,364	11,364	11,364	11,364	11,364	11,364	11,364	11,364	11,364	11,364	11,364	11,364	11,364	11,364
	MARKET CATEGORIES																											
	Home goods and apparel.....	3,899	4,087	3,951	3,884	4,276	4,264	4,797	4,813	4,370	4,130	4,198	3,970	3,794	5,205	4,497	4,683	4,683	4,683	4,683	4,683	4,683	4,683	4,683	4,683	4,683	4,683	4,683
	Consumer staples.....	185,673	186,916	188,274	191,519	190,002	187,724	191,356	189,974	188,940	184,741	186,793	189,702	193,353	193,315	189,401	191,070	191,070	191,070	191,070	191,070	191,070	191,070	191,070	191,070	191,070	191,070	191,070
	Transportation equipment, except automobiles.....	15,071	15,170	15,506	15,972	16,416	16,982	17,527	17,674	17,388	15,711	15,410	15,829	16,106	18,078	17,942	17,792	17,792	17,792	17,792	17,792	17,792	17,792	17,792	17,792	17,792	17,792	17,792
	Construction materials, supplies, and intermediate products.....	99,029	99,859	102,751	103,346	104,793	109,671	114,276	114,634	112,136	98,475	99,933	103,423	105,264	114,063	114,582	115,662	115,662	115,662	115,662	115,662	115,662	115,662	115,662	115,662	115,662	115,662	115,662
	SUPPLEMENTARY SERIES ²																											
	Household durable goods industries.....	2,810	2,961	2,858	2,643	3,288	3,069	3,623	3,704	3,531	3,069	3,119	3,419	3,227	4,003	3,915	3,617	3,617	3,617	3,617	3,617	3,617	3,617	3,617	3,617	3,617	3,617	3,617
	Capital goods industries.....	216,762	218,756	221,766	224,799	222,888	220,621	224,701	222,627	220,540	215,178	218,117	222,209	226,366	222,162	221,940	223,409	223,409	223,409	223,409	223,409	223,409	223,409	223,409	223,409	223,409	223,409	223,409
	Nondefense.....	132,351	134,276	137,852	140,991	140,991	146,701	153,052	154,870	155,072	132,500	134,473	138,174	142,240	154,761	154,899	156,331	157,524	157,524	157,524	157,524	157,524	157,524	157,524	157,524	157,524	157,524	157,524
	Defense.....	84,391	84,530	83,914	83,808	81,905	73,919	71,850	67,758	65,468	82,678	83,444	84,035	84,321	67,400	67,091	67,091	67,091	67,091	67,091	67,091	67,091	67,091	67,091	67,091	67,091	67,091	67,091
	INDUSTRY GROUPS AND INDUSTRIES																											
	Durable goods industries.....	1,701	1,720	1,762	1,749	1,935	2,241	2,155	2,296	2,286	1,764	1,759	1,939	1,825	2,365	2,351	2,361	2,361	2,361	2,361	2,361	2,361	2,361	2,361	2,361	2,361	2,361	2,361
	Primary metals.....	22,196	22,168	22,118	22,168	22,168	22,168	22,168	22,168	22,168	22,168	22,168	22,168	22,168	22,168	22,168	22,168	22,168	22,168	22,168	22,168	22,168	22,168	22,168	22,168	22,168	22,168	22,168
	Blast furnaces, steel mills.....	13,241	12,930	13,129	13,106	13,679	14,115	14,093	14,093	14,093	14,093	14,093	14,093	14,093	14,093	14,093	14,093	14,093	14,093	14,093	14,093	14,093	14,093	14,093	14,093	14,093	14,093	14,093
	Nonferrous and other primary metal products.....	6,532	6,586	6,419	6,572	6,697	7,302	8,078	8,526	8,533	6,375	6,560	6,579	6,846	8,427	8,300	8,903	8,903	8,903	8,903	8,903	8,903	8,903	8,903	8,903	8,903	8,903	8,903
	Fabricated metal products.....	25,960	26,384	26,883	27,574	28,334	29,240	30,170	30,598	30,275	26,054	26,419	27,065	27,745	31,054	30,629	30,583	30,583	30,583	30,583	30,583	30,583	30,583	30,583	30,583	30,583	30,583	30,583
	Machinery, except electrical.....	11,860	12,462	12,924	13,462	14,091	14,627	15,171	15,618	15,618	11,860	12,462	13,068	13,674	14,280	14,888	15,496	16,104	16,712	17,320	17,928	18,536	19,144	19,752	20,360	20,968	21,576	22,184
	Construction, mining, and material-handling equipment.....	7,054	7,362	7,813	8,370	9,301	10,411	11,424	10,956	9,694	7,039	7,184	7,923	8,707	11,331	10,989	10,563	10,563	10,563	10,563	10,563	10,563	10,563	10,563	10,563	10,563	10,563	10,563
	General industrial machinery.....	3,179	3,332	3,454	3,666	3,932	4,870	5,742	6,452	6,998	3,173	3,415	3,647	3,972	6,208	6,420	6,643	6,872	7,101	7,324	7,547	7,770	8,000	8,223	8,446	8,669	8,892	9,115
	General industrial machinery.....	5,852	6,077	6,221	6,480	6,480	6,790	6,816	6,650	6,413	5,881	6,013	6,233	6,362	6,752	6,658	6,714	6,714	6,714	6,714	6,714	6,714	6,714	6,714	6,714	6,714	6,714	6,714

See footnotes at end of table.

Table 4. VALUE OF MANUFACTURES
INDUSTRIES FOR INDUSTRIES GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(Millions of dollars)

SIC	Industry	Seasonally adjusted												Not seasonally adjusted ¹												
		Monthly						Quarterly						Monthly						Monthly						
		July 1982	June 1982	May 1982	Apr. 1982	I 1982	IV 1981	III 1981	II 1981	I 1981	July 1982	June 1982	May 1982	Apr. 1982	July 1981	June 1981	May 1981	Apr. 1981	July 1981	June 1981	May 1981	Apr. 1981				
TOTALS																										
311	All manufacturing industries.....	275,175	275,115	276,449	278,985	280,765	281,152	282,709	274,636	271,062	274,707	276,281	274,191	282,017	276,449	275,626	276,959	274,918								
312	Manufacturing industries: ex-																									
313	cluding transportation.....	235,780	235,741	237,748	240,242	241,915	244,415	243,800	236,310	234,021	235,740	237,630	240,948	243,064	239,321	238,371	239,550	237,486								
314	Manufacturing industries with																									
315	unfilled orders.....	189,884	189,443	191,145	192,468	192,527	194,605	192,872	185,811	182,761	190,415	192,433	194,175	194,771	188,989	187,599	187,273	186,111								
316	Durable goods industries.....	183,825	184,289	184,970	185,916	186,063	188,429	187,686	181,115	178,374	183,452	185,442	187,487	188,253	183,218	182,247	182,384	181,582								
317	Durable goods with unfilled																									
318	orders.....	168,405	169,479	170,176	171,189	171,059	172,876	171,393	165,092	162,165	169,406	170,642	172,943	173,035	167,378	166,137	165,947	165,134								
319	Nondurable goods industries.....	91,350	90,826	91,579	94,002	94,723	96,723	96,513	91,492	90,688	96,855	90,834	92,104	93,764	93,281	93,378	94,575	93,337								
320	Nondurable goods with unfilled																									
321	orders.....	20,979	21,014	21,169	21,467	21,729	21,474	20,809	20,595	21,509	21,691	21,834	21,736	21,611	21,462	21,326	21,177	21,177								
MARKET CATEGORIES																										
322	Home goods and apparel.....	21,768	21,598	21,729	22,041	22,448	22,084	21,484	21,165	22,265	22,746	22,775	22,746	22,436	22,380	22,538	22,650	21,880								
323	Consumer staples.....	33,557	32,812	33,155	33,613	34,100	33,375	32,884	31,884	32,406	31,935	31,935	31,935	33,342	31,963	31,890	32,476	31,860								
324	Equipment and defense products,																									
325	except automotive.....	77,417	77,622	77,908	76,316	76,445	75,187	73,096	71,468	77,535	77,936	78,261	78,450	73,834	73,511	73,429	72,977	72,977								
326	Automotive equipment.....	11,354	11,226	11,102	11,191	11,047	12,384	11,047	11,240	10,996	10,964	11,093	11,359	11,480	11,757	12,046	12,259	12,259								
327	Construction materials, supplies,																									
328	and other materials.....	20,481	20,513	20,619	20,723	21,078	22,172	22,448	21,800	21,111	20,426	20,783	21,076	21,301	22,029	22,047	21,979	21,762								
329	Other materials, supplies, and																									
330	intermediate products.....	110,598	111,304	112,068	113,741	115,179	116,611	116,841	113,249	112,273	111,173	111,977	113,557	115,199	114,813	113,883	114,522	113,594								
SUPPLEMENTARY SERIES																										
331	Household durable goods indus-																									
332	tries.....	10,773	10,744	10,856	10,896	11,296	11,026	10,549	10,463	10,992	11,081	11,119	11,080	10,938	10,881	10,496	10,805	10,805								
333	Capital goods industries.....	73,110	73,393	73,782	74,795	76,510	75,633	72,976	70,991	73,669	73,689	74,403	74,782	71,716	71,445	71,176	70,883	70,883								
334	Nondefense.....	14,256	14,029	13,446	13,857	13,134	12,492	12,155	11,406	12,460	12,460	12,460	12,460	12,380	12,306	11,903	11,683	11,683								
335	Defense.....																									
INDUSTRY GROUPS AND INDUSTRIES																										
336	Durable goods industries-																									
337	Stone, clay, and glass products	6,393	6,362	6,429	6,544	6,792	6,766	6,351	6,170	6,438	6,505	6,676	6,723	6,666	6,468	6,318	6,417	6,417								
338	Textiles.....	16,576	16,576	16,618	16,736	16,806	16,876	16,406	16,206	16,506	16,506	16,506	16,506	16,506	16,506	16,506	16,506	16,506								
339	Primary metals.....	12,455	12,455	12,506	12,867	13,075	13,441	13,367	13,198	12,729	12,680	12,643	12,515	12,764	12,825	12,567	12,180	12,116								
340	Nonferrous and other primary																									
341	metals.....	10,561	10,710	10,834	10,907	11,145	11,273	11,139	10,416	10,030	10,603	10,742	10,997	11,179	10,846	10,467	10,409	10,409								
342	Fabricated metal products.....	19,261	19,593	19,664	19,716	19,868	20,008	20,334	19,759	19,585	19,372	19,856	20,064	20,146	20,008	19,513	20,008	20,008								
343	Metal cans, barrels, and																									
344	drums.....	1,520	1,504	1,491	1,409	1,318	1,576	1,569	1,604	1,612	1,677	1,607	1,616	1,634	1,727	1,772	1,772	1,772								
345	Engines, except electrical.....	43,775	44,008	44,447	44,334	44,376	43,471	41,799	41,162	43,769	44,342	45,015	44,962	42,413	42,114	42,092	41,702	41,702								
346	Engines and turbines.....	2,580	2,520	2,579	2,602	2,587	2,625	2,672	2,512	2,495	2,504	2,542	2,608	2,641	2,509	2,535	2,500	2,500								
347	Farm machinery and equipment,																									
348	except tractors.....	2,580	2,763	2,745	2,782	2,808	2,935	2,804	2,847	2,804	2,854	2,805	2,832	2,904	2,882	2,890	2,869	2,869								
349	Construction, mining, and																									
350	metal-handling equipment.....	11,009	11,134	11,191	11,301	10,950	10,643	10,044	9,563	9,291	11,053	11,200	11,621	11,621	11,387	9,718	9,600	9,499								
351	Construction, mining, and																									
352	metalworking machinery.....	2,192	2,140	2,191	2,288	2,764	2,858	2,763	2,756	2,602	2,639	2,510	2,554	2,811	2,757	2,610	2,783	2,783								
353	General industrial machinery.	4,084	4,094	4,155	4,142	4,098	4,089	4,053	3,924	3,885	4,097	4,139	4,176	4,181	3,976	3,967	3,855	3,855								

See footnotes at end of table.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(Millions of dollars)

SIC	Industry	Seasonally adjusted					Quarterly					Not seasonally adjusted				
		Monthly					I	II	III	IV	I	Monthly				
		July 1982	Aug. 1982	Sept. 1982	Oct. 1982	Nov. 1982						July 1982	Aug. 1982	Sept. 1982	Oct. 1982	Nov. 1982
26	INDUSTRY GROUPS AND INDUSTRIES--Continued	26,482	27,024	27,465	27,526	28,142	28,110	27,234	26,533	27,129	27,472	27,733	27,820	27,764	27,763	27,678
27	Durable goods industries--Continued	26,950														
31	Electrical machinery.....	4,376	4,301	4,409	4,474	4,566	4,710	4,462	4,280	4,316	4,430	4,469	4,485	4,562	4,515	4,506
32	Electrical transmission and distribution equipment.....	1,890	1,886	1,853	1,875	1,868	2,050	1,931	1,894	1,915	1,982	2,010	1,991	2,027	2,050	2,040
33	Household appliances.....	1,698	1,674	1,769	1,799	1,866	1,722	1,569	1,499	1,783	1,746	1,789	1,781	1,811	1,820	1,800
35	Radio and TV.....	9,360	9,334	9,407	9,410	9,337	9,281	9,437	9,438	9,438	9,438	9,438	9,438	9,438	9,438	9,438
36	Communication equipment.....	3,353	3,372	3,366	3,382	3,377	3,571	3,570	3,527	3,570	3,538	3,556	3,594	3,636	3,681	3,704
37	Electronic components.....	39,553	39,727	39,762	39,832	39,837	38,409	37,686	37,641	38,492	38,651	38,693	38,953	39,428	39,725	39,699
38	Transportation equipment.....	8,856	8,845	8,840	8,873	8,926	9,608	9,596	9,838	9,848	9,836	9,828	9,857	9,962	10,010	9,979
39	Aircraft, missiles, and parts	27,107	26,893	26,599	26,412	24,759	24,429	23,852	23,020	27,319	26,790	26,671	26,594	24,255	23,753	23,484
40	Shipbuilding and military tank vehicles.....	1,573	1,702	1,833	1,909	2,181	2,244	2,255	2,218	1,613	1,682	1,709	1,835	2,214	2,269	2,327
41	Instruments and related products.....	9,382	9,393	9,316	9,199	9,610	9,528	9,372	9,188	9,453	9,596	9,539	9,687	9,434	9,575	9,500
42	Photographic goods.....	6,621	6,600	6,509	6,633	6,482	6,531	6,389	6,189	6,848	6,712	6,826	6,707	6,625	6,498	6,393
43	Other durable goods.....	2,268	2,291	2,272	2,405	2,537	2,508	2,405	2,008	2,289	2,268	2,392	2,455	2,448	2,487	2,527
44	All other durable goods industries.....	14,354	14,272	14,246	14,404	14,814	15,141	14,824	14,253	14,322	14,377	14,386	14,462	14,967	14,974	14,855
50	Non-durable goods industries--Food and kindred products.....	20,338	20,140	20,377	20,405	20,400	21,230	21,236	21,381	19,376	18,808	19,344	19,919	20,257	20,184	20,063
51	Meat products.....	3,573	3,579	3,525	3,563	3,619	3,664	3,740	3,757	3,375	3,486	3,550	3,619	3,426	3,523	3,493
52	Dairy products.....	1,320	1,381	1,361	1,298	1,403	1,501	1,512	1,650	1,398	1,269	1,330	1,399	1,309	1,394	1,541
53	Other foods.....	12,011	11,433	11,606	11,825	11,778	11,884	12,499	12,434	12,411	11,398	10,575	10,793	11,157	11,490	11,532
23-6.9	All other foods.....	4,893	4,697	4,812	4,801	4,508	4,088	3,733	3,819	4,260	4,448	4,726	4,729	4,977	5,036	5,058
20	Tobacco products.....	6,391	6,367	6,313	6,387	6,301	6,508	6,319	6,239	6,372	6,318	6,362	6,369	6,408	6,472	6,408
21	Textile mill products.....	3,576	3,576	3,590	3,560	3,461	3,275	3,166	3,115	3,588	3,635	3,663	3,691	3,208	3,218	3,196
22	Paper and allied products.....	2,232	2,291	2,298	2,301	2,312	2,309	2,192	2,137	2,305	2,378	2,363	2,353	2,293	2,273	2,202
23-1.3	Pulp, paper, etc.....	2,888	2,890	2,922	2,980	3,072	2,981	2,881	2,921	2,925	2,992	3,053	3,083	3,067	2,981	2,898
24	All other paper containers.....	20,802	20,973	20,895	21,363	21,428	21,615	21,314	20,417	20,750	20,894	21,156	21,729	20,894	20,768	20,552
25	Chemicals and allied products.....	6,432	6,546	6,532	6,763	6,982	6,876	6,865	6,655	6,677	6,501	6,637	6,724	6,849	6,817	6,710
31.6	Industrial chemicals, except pigments.....	6,421	6,450	6,582	6,604	6,690	6,324	6,483	6,148	6,485	6,612	6,721	6,691	6,372	6,440	6,360
33.4	Plastics, soap, and toiletries.....	9,280	9,101	9,060	10,531	10,544	10,810	11,423	11,431	9,493	9,096	9,010	9,518	11,281	11,412	11,317
36	Rubber and plastics products.....	5,831	6,046	6,115	6,153	6,298	6,434	6,108	6,199	6,107	6,262	6,404	6,336	6,300	6,482	6,482
38	All other non-durable goods industries.....	15,121	15,055	15,246	15,323	15,406	15,628	15,015	14,626	15,940	16,051	15,883	15,596	15,587	15,567	15,491

Preliminary. Revised.

Shipments, and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods: Industries--Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances, radio and TV; optical goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories. Machinery and equipment and machine shops; electrical machinery (excluding household appliances, radio and TV, and electronic components); and the products of the electrical, electronic, and optical industries.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the MA-175, Shipments to Federal Government agencies (formerly Shipments of Inventions-Oriented Industries 1), for the specified industries.

Table 5. VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION BY INDUSTRIAL GROUP

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent change							Revision ²		
	Month-to-month			Average monthly rate of change ¹				Year ago July 1981	Average monthly	
	June 1982- July 1982	May 1982- June 1982	Apr. 1982- May 1982	Second quarter 1982	First quarter 1982	Fourth quarter 1981	Aug. 1981 through July 1982		July 1981 through June 1982	July 1977-1981
Shipments:										
All manufacturing industries.....	+0.6	+0.4	+3.0	+0.8	-0.4	-1.7	-0.4	0.2	0.2	0.2
Durable goods industries.....	+1.1	-0.8	+3.1	+0.3	-0.4	-2.2	-0.6	0.4	0.3	0.5
Nondurable goods industries.....	+0.2	+1.6	+3.0	+1.3	-0.5	-1.2	-0.2	0.2	0.3	0.7
Inventories:										
All manufacturing industries.....	0.0	-0.5	-0.9	-0.6	-0.4	+0.1	-0.1	0.1	0.1	0.2
New orders:										
All manufacturing industries.....	+2.0	+0.2	+1.2	0.0	-0.1	-2.2	-0.6	0.5	0.3	0.5
Durable goods industries.....	+4.0	-1.5	-0.6	-1.4	+0.6	-3.3	-1.0	1.2	0.7	0.9
Nondurable goods industries.....	+0.2	+1.8	+2.9	+1.3	-0.4	-1.2	-0.2	0.4	0.3	0.6
Unfilled orders:										
Durable goods industries.....	-0.7	-1.4	-1.2	-1.0	-0.3	-0.9	-0.6	0.2	0.1	0.2

- Represents zero.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	July 1982 ^p	June 1982 ^r	May 1982	April 1982	July 1982 ^p	June 1982 ^r	May 1982	April 1982
All manufacturing industries.....	1.69	1.70	1.72	1.79	3.64	3.71	3.71	3.86
Durable goods industries.....	2.31	2.34	2.32	2.41	4.45	4.52	4.52	4.71
Stone, clay, and glass products.....	1.68	1.66	1.66	1.74	0.50	0.51	0.52	0.54
Primary metals.....	2.86	2.86	2.89	2.84	2.63	2.58	2.55	2.50
Fabricated metals.....	1.92	1.98	1.95	2.02	2.83	2.95	2.92	3.12
Machinery, except electrical.....	2.90	2.84	2.80	2.88	4.39	4.38	4.46	4.68
Electrical machinery.....	2.22	2.32	2.27	2.34	4.55	4.70	4.58	4.68
Transportation equipment.....	2.19	2.22	2.34	2.43	11.04	10.96	11.23	12.41
Instruments and related products.....	2.36	2.34	2.33	2.49	1.80	1.78	1.85	1.95
Nondurable goods industries.....	1.10	1.10	1.13	1.18	0.52	0.54	0.55	0.57
Food and kindred products.....	0.87	0.85	0.87	0.91	(X)	(X)	(X)	(X)
Tobacco products.....	4.79	3.48	4.27	4.16	(X)	(X)	(X)	(X)
Textile mill products.....	1.53	1.51	1.57	1.61	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.32	1.36	1.39	1.37	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.43	1.44	1.48	1.55	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.53	0.52	0.52	0.59	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.51	1.61	1.71	1.76	(X)	(X)	(X)	(X)

(NA) Not available. ^pPreliminary. ^rRevised. (X) Not applicable.¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

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Manufacturers' Shipments, Inventories, and Orders

AUGUST 1982

M3-1(82)-8

FOR WIRE TRANSMISSION 3:00 P.M. E.D.T. FRIDAY, OCTOBER 1, 1982

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in August declined \$4.4 billion or 2.8 percent from July to \$154.1 billion the Department of Commerce, Bureau of the Census reported today. The August decline, which is the largest since a 4.9 percent decrease last October, followed three consecutive monthly increases. Manufacturers' shipments also declined in August, down \$3.6 billion or 2.3 percent from July to \$157.7 billion.

The backlog of manufacturers' orders in August declined \$3.6 billion or 1.2 percent to \$299.6 billion, the thirteenth consecutive monthly decline in the series. The book value of manufacturers' inventories showed a slight decline from July, down \$0.3 billion to \$274.6 billion. Although inventories showed declines in eight of the last nine months, the rate of decline has slowed the last two months.

Of the \$4.4 billion decline in total new orders in August, orders for durable goods declined \$3.1 billion or 4.1 percent to \$73.3 billion. This more than offset last month's durable goods increase of 2.5 percent. Within the major industry groups the largest declines were in transportation equipment, electrical machinery and primary metals orders. The transportation equipment decline of \$1.8 billion or 10.3 percent to \$15.7 billion was concentrated in the motor vehicle and parts and shipbuilding categories. The electrical machinery decline of \$0.7 billion or 6.0 percent to \$11.7 billion followed a 5.9 percent increase last month. The decline in primary metals orders of \$0.5 billion or 6.0 percent to \$8.1 billion followed four consecutive monthly increases and dropped orders back to the level reported for April. New orders for nonelectrical machinery increased in August \$0.8 billion or 6.2 percent to \$13.7 billion.

New orders for nondefense capital goods in August declined \$1.0 billion or 4.8 percent to \$19.3 billion, offsetting last month's gain of 5.4 percent. New orders for defense capital goods in August were up \$0.7 billion or 14.6 percent to \$5.4 billion.

The 2.3 percent decline in shipments of manufactured products reflected decreases in both the durable and nondurable

sectors. Within the durable category, which was down \$2.0 billion or 2.5 percent to \$77.0 billion, all major industry categories declined with the electrical machinery and miscellaneous durable goods industries showing the largest decreases. Within the nondurable category, which was down \$1.6 billion or 2.0 percent to \$80.7 billion, the food products industry accounted for about 3/4ths of the decline. Shipments of food products were down \$1.2 billion or 5.3 percent to \$22.0 billion. Shipments of petroleum products and rubber and plastics products also showed declines in August.

The August decline in unfilled orders of durable goods manufacturers was the 13th consecutive. Since July 1981 unfilled orders for the nondefense capital goods category in August declined \$2.4 billion or 1.8 percent to \$129.7 billion. Since January 1981 when the backlog peaked at \$157.0 billion, unfilled orders for nondefense capital goods have declined 17.4 percent. During that same time period, the backlog of orders for defense capital goods increased 34 percent from \$63.5 billion to \$85.1 billion.

The book value of inventories has declined 3.9 percent since last November when the level peaked at \$285.8 billion. Both the durable and nondurable goods categories have been decreasing. Inventories by stage of fabrication during that time show materials and supplies declining 5.6 percent, work in process declining 4.2 percent, and finished goods declining 1.7 percent. The inventory to shipments ratio during that time has remained relatively steady; the November ratio was 1.77 while this month's ratio is 1.74.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for September is scheduled for release on October 22, 1982, and full report is scheduled for release on November 2, 1982.

The method of seasonally adjusting shipments data for the motor vehicle assembly industry for July through September has been changed this year and is now consistent with the traditional X-11 approach followed for other industry categories in the survey. Previously, an estimated seasonally-adjusted monthly average for the third quarter was used in each of the 3 months to compensate for the erratic monthly movements which occurred during this model changeover period. The change in procedure was made because the seasonal pattern in the data has become somewhat more stable, and the data series subject to smaller historical revisions.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

TABLE 1. Values of ΔH and ΔS for the reaction of N_2O_4 with N_2O at 298 K and 1 atm.

See footnotes at end of table.

THE UNIVERSITY OF CHICAGO

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURES' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(Billions of dollars)

SIC	Industry group	Seasonally adjusted										Not seasonally adjusted ¹			
		Months										Quarterly			
		July 1982 ²	Aug. 1982 ²	Sept. 1982 ²	Oct. 1982 ²	Nov. 1982 ²	Dec. 1982 ²	Jan. 1983 ²	Feb. 1983 ²	Mar. 1983 ²	Apr. 1983 ²	May 1983 ²	June 1983 ²	July 1983 ²	Aug. 1983 ²
20	INDUSTRY GROUP AND INDUSTRIES-- Manufacturing	55,108	54,955	54,988	53,784	51,939	52,028	50,778	49,101	50,487	54,730	54,999	51,285	46,940	50,911
20	Durable goods industries--														
20	Electrical machinery.....	7,576	7,794	7,884	8,103	8,442	8,705	8,906	8,849	8,800	7,614	7,906	8,285	8,467	8,913
20	Household appliances.....	342	330	332	323	333	333	383	429	419	366	327	343	417	455
20	Transportation equipment.....	34,254	33,654	33,268	31,490	29,497	28,256	28,218	27,018	26,425	23,433	23,399	26,504	26,549	27,138
20	Electronic components.....	11,554	11,711	11,714	12,088	11,832	11,734	11,733	11,677	11,596	11,711	11,697	12,171	11,884	11,807
20	Transportation equipment.....	114,424	116,359	116,652	118,529	113,709	115,709	115,427	115,382	115,382	115,764	117,460	116,833	115,068	115,215
20	Transportation equipment.....	40,841	41,178	41,484	42,683	42,207	42,207	42,207	42,207	42,207	42,207	42,207	42,207	42,207	42,207
20	Transportation equipment.....	18,413	18,427	19,261	19,303	19,469	19,493	19,732	19,732	19,732	19,732	19,732	19,732	19,732	19,732
20	Transportation equipment.....	7,115	7,169	7,128	7,362	7,189	7,112	7,034	6,984	7,157	7,202	7,265	7,173	7,225	7,110
20	All other durable goods.....	4,470	4,504	4,597	5,313	4,801	4,931	4,431	4,833	4,714	4,840	5,204	5,236	5,114	5,187
20	Industries.....														

1. The figures are the totals for the period and are adjusted for trade-in and calendar-month variations. Unfilled orders and inventories are of the end of the period and are not adjusted for trade-in and calendar-month variations.

2. The supplementary series are groupings of the separate industry categories as follows:

Household durable goods industries--household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radio and TV, and electronic equipment; and consumer products--machinery, except electrical (excluding farm machines and equipment and machine tools), electrical machinery, excluding household appliances, radio and TV, and electronic equipment; and non-durable products--textiles, apparel, and footwear.

3. The figures are based on separate reports on durable goods (including large business contractors) in the following industries: primary, secondary, and tertiary; and in the following industries: primary, secondary, and tertiary.

See footnotes at end of table.

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent changes							Percentages ¹		
	Month-to-month			Average monthly rates of change ¹				Aug. through Aug. 1981	Average monthly	
	July 1981-Aug. 1981	June 1982-July 1982	May 1982-June 1982	Second quarter 1982	First quarter 1982	Fourth quarter 1981	Sept. 1981 through Aug. 1982		Aug. 1981 through July 1982	Aug. 1977-1981
Shipments:										
All manufacturing industries.....	-2.3	-0.1	+0.4	+0.8	-0.4	-1.7	-0.6	0.3	0.3	0.4
Durable goods industries.....	-2.5	+0.2	-0.8	+0.3	-0.4	-2.2	-0.8	0.9	0.4	0.4
Nondurable goods industries.....	-2.0	-0.3	+1.6	+1.3	-0.5	-1.2	-0.3	0.2	0.3	0.4
Inventories:										
All manufacturing industries.....	-0.1	0.1	-0.5	-0.6	-0.4	-0.1	-0.1	0.2	0.1	0.1
New orders:										
All manufacturing industries.....	-2.8	+1.0	+0.2	0.0	-0.1	-2.1	-0.8	0.3	0.3	0.4
Durable goods industries.....	-4.1	0.1	-1.5	-1.4	+0.6	-3.3	-1.2	0.6	0.7	0.4
Nondurable goods industries.....	-1.6	-0.4	+1.8	+1.3	-0.4	-1.2	-0.3	0.1	0.4	0.4
Unfilled orders:										
Durable goods industries.....	-1.3	-0.9	-1.4	-1.0	-0.3	-0.9	-1.7	0.1	0.1	-0.1

- Represents zero.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the difference, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENT, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio ¹				Unfilled orders--shipments ratio ² (months' backlog)			
	Aug. 1981 ^P	July 1982 ^F	June 1982	May 1982	Aug. 1981 ^P	July 1982 ^F	June 1982	May 1982
All manufacturing industries.....	1.74	1.70	1.70	1.72	3.72	3.67	3.69	3.71
Durable goods industries.....	2.38	2.33	2.34	2.32	4.57	4.49	4.51	4.52
Stone, clay, and glass products.....	1.75	1.68	1.66	1.66	0.53	0.51	0.51	0.52
Primary metals.....	2.89	2.90	2.86	2.89	2.66	2.65	2.58	2.55
Fabricated metals.....	1.97	1.93	1.98	1.95	2.84	2.83	2.95	2.92
Machinery, except electrical.....	2.96	2.95	2.84	2.80	6.36	6.42	6.38	6.40
Electrical machinery.....	2.34	2.22	2.32	2.27	4.80	4.54	4.70	4.58
Transportation equipment.....	2.25	2.21	2.22	2.24	11.47	11.14	10.96	11.23
Instruments and related products.....	2.41	2.41	2.34	2.33	1.83	1.81	1.78	1.85
Nondurable goods industries.....	1.13	1.11	1.10	1.13	0.53	0.53	0.54	0.55
Food and kindred products.....	0.43	0.87	0.85	0.87	(X)	(X)	(X)	(X)
Tobacco products.....	3.78	4.79	3.48	4.27	(X)	(X)	(X)	(X)
Textile mill products.....	1.66	1.98	1.51	1.57	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.32	1.35	1.36	1.39	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.44	1.46	1.44	1.48	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.54	0.52	0.52	0.52	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.62	1.54	1.61	1.71	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. ^FRevised. (X) Not applicable.¹Excludes the following industries with no unfilled orders: wood and lumber products; glass containers, metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

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M3-K(82)-9



Manufacturers' Shipments, Inventories, and Orders

SEPTEMBER 1982

M3-1(82)-9

FOR WIRE TRANSMISSION 2:30 P.M. E.S.T. TUESDAY, NOVEMBER 2, 1982

U.S. Department of Commerce
BUREAU OF THE CENSUS

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in September increased \$1.1 billion or 0.7 percent to \$155.5 billion; the Department of Commerce, Bureau of the Census reported today. The increase was attributable to the nondurable goods sector where orders were up \$1.2 billion or 1.5 percent to \$82.6 billion. In the nondurable goods sector new orders for the most part reflect shipments during the month; September shipments were up 1.2 percent from August. New orders in the durable goods sector declined in September \$0.1 billion or 0.1 percent to \$72.9 billion; this was revised from an earlier reported increase of 0.2 percent.

Shipments by manufacturers in September showed a small decrease of \$0.1 billion to \$158.6 billion, with offsetting movements in the durable and nondurable goods categories. Shipments of durable goods declined in September \$1.1 billion or 1.4 percent to \$76.2 billion, while shipments of nondurable goods increased \$1.0 billion or 1.2 percent to \$82.4 billion. Shipments of durable goods so far this year total \$699.7 billion, 7.9 percent lower than the 1st 9 months of 1981; shipments of nondurable goods total \$728.0 billion for the 1st 9 months of this year, 2.8 percent less than the same period in 1981.

The backlog of manufacturers orders' continued to decline. In September the backlog decreased \$3.1 billion or 1.0 percent to \$296.0 billion, the 14th consecutive monthly decline. The book value of manufacturers' inventories was also down in September, the 9th decline in the last 10 months. The September decline was \$2.2 billion or 0.8 percent to \$272.2 billion.

Within the major industry groups, the decline in durable goods new orders in September reflected decreases in transportation equipment and primary metals orders. The decline in the transportation equipment category was \$1.7 billion or 10.3 percent to \$14.4 billion with the aircraft and parts and motor vehicle and parts industries causing the decline. The decrease in primary metals orders was \$0.3 billion or 3.1 percent to \$7.9 billion; a large decline in the steel category of \$0.4 billion or 9.6 percent was partially offset by a \$0.2 billion or 4.1 percent increase in the nonferrous category. New orders for machinery, both electrical and nonelectrical, increased in September; the nonelectrical category was up 0.8 billion or 6.0 percent to \$13.9 billion, while the electrical category was up \$0.5 billion or 4.4 percent to \$12.1 billion.

Within the capital goods industries new orders for nondefense capital goods increased \$0.9 billion or 4.7 percent to \$19.8 billion. Virtually all of the increase was attributable to the machinery industries. New orders for defense capital goods, which is extremely volatile month to month, declined in September \$1.1 billion or 20.2 percent to \$4.2 billion.

Shipments of durable goods in September were down 1.4 percent following a 2.3 percent decline in August. The transportation equipment industry showed the largest decline in September, down \$1.4 billion or 8.2 percent to \$16.2 billion, with the motor vehicle and parts category accounting for almost the entire decline. The shipments increase in the nondurable goods sector of 1.2 percent resulted mostly from increases in the food products and petroleum products industries of \$0.9 billion or 3.8 percent and \$0.5 billion or 3.1 percent respectively. Both of these industries showed large declines last month; food product shipments were down \$1.0 billion or 4.3 percent in August, and petroleum product shipments were down \$0.7 billion or 4.0 percent.

The September decline in the orders backlog reflected widespread decreases. Transportation equipment declined \$1.7 billion or 1.5 percent, nonelectrical machinery \$1.4 billion or 2.4 percent, fabricated metals \$0.6 billion or 2.5 percent and primary metals \$0.3 billion or 1.3 percent.

The September decline in the book value of inventories of 0.8 percent was the largest since the 0.9 percent decline in May. The nondurable goods industries, down 1.6 percent, accounted for about 2/3 of the September decline, with most of the component industries decreasing. The September decline in the durable goods industries reflected decreases in most of the industries except transportation equipment.

The inventory to shipments ratio in September stood at 1.72, down from 1.73 in August.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for October is scheduled for release on November 23, 1982, and full report is scheduled for release on December 2, 1982.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, 30 cents per copy, \$3.60 per year.

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See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(Billions of dollars)

SIC	Industry	Seasonally adjusted				Quarterly				Monthly				Not seasonally adjusted ¹				Vintage date	
		Monthly				Quarterly				Last 4 months				Last 4 months a year ago				Vintage date	
		Aug 1982	July 1982	June 1982	May 1982	II 1982	I 1982	Aug 1982	July 1982	June 1982	May 1982	Aug 1981	July 1981	June 1981	May 1981	1982	1981		
INDUSTRY GROUPS AND INDUSTRIES-- continued																			
Durable goods and industries-- continued																			
36	Electrical machinery.....	11,494	11,434	12,108	11,639	35,036	34,270	35,228	34,270	12,119	11,131	10,634	12,134	11,485	10,411	12,412	10,376	1982	1981
361,2	Electrical transmission and distribution equipment and household appliances.....	1,723	1,671	1,731	1,715	5,125	5,125	5,222	5,125	1,722	1,635	1,593	1,648	1,472	1,382	1,369	1,376	1982	1981
363	Radio and TV.....	1,066	1,109	1,031	1,015	3,276	3,016	3,105	3,016	1,066	1,031	1,015	1,128	1,134	1,104	1,111	1,104	1982	1981
366	Electronic equipment.....	3,670	3,607	3,744	3,697	10,931	10,828	11,052	10,828	3,670	3,607	3,697	3,744	3,684	3,618	3,624	3,676	1982	1981
368	Electronic components.....	2,603	2,642	2,499	2,548	7,955	7,955	7,955	7,955	2,603	2,642	2,499	2,548	2,594	2,588	2,594	2,594	1982	1981
369	Transportation equipment.....	16,153	17,589	17,806	17,531	51,568	50,812	51,568	50,812	16,153	15,682	15,682	16,153	15,703	15,199	15,601	15,199	1982	1981
371	Motor vehicles and parts.....	9,542	11,018	10,918	10,420	31,478	30,318	31,478	30,318	9,542	8,483	8,412	11,161	9,195	8,198	11,161	8,412	1982	1981
372	Aircraft, missiles, and parts.....	5,710	5,201	5,316	5,681	15,717	15,246	15,717	15,246	5,710	5,482	5,486	5,717	5,146	4,742	5,146	4,742	1982	1981
373	Shipbuilding and military tank vehicles and related products.....	945	853	989	929	2,787	2,813	2,787	2,813	945	859	945	968	983	1,018	948	1,047	1982	1981
375	Instruments and related products.....	4,005	3,894	4,007	4,007	11,804	11,628	11,804	11,628	4,005	3,873	3,939	4,005	3,876	3,813	4,005	3,876	1982	1981
381-4	Scientific and engineering... photographic goods.....	1,138	1,171	1,361	1,453	4,070	4,260	4,260	4,260	1,138	1,171	1,361	1,453	1,423	1,351	1,453	1,423	1982	1981
25	All other durable goods industries.....	7,884	7,691	8,106	7,839	23,741	23,472	23,472	23,472	7,884	7,691	7,487	8,192	8,319	7,804	8,192	7,487	1982	1981
Non-durable goods industries.....																			
20	Food and kindred products.....	23,130	22,275	23,130	23,130	68,483	67,182	68,483	67,182	24,119	22,335	21,637	23,812	23,115	22,084	23,812	22,084	1982	1981
201	Meat products.....	6,162	6,129	6,294	6,162	18,585	17,285	18,585	17,285	6,166	6,215	5,954	6,385	6,268	6,131	6,385	6,268	1982	1981
202	Beverages.....	3,067	2,950	3,067	3,067	9,135	8,968	9,135	8,968	3,113	3,113	3,111	3,417	3,296	3,111	3,417	3,296	1982	1981
203-9	All other foods.....	9,399	8,798	9,399	9,399	27,537	26,637	27,537	26,637	9,399	8,798	8,798	9,399	8,798	8,798	9,399	8,798	1982	1981
21	Tobacco products.....	1,311	1,243	1,331	1,331	3,775	3,775	3,775	3,775	1,311	1,243	1,331	1,331	1,331	1,331	1,331	1,331	1982	1981
22	Textile mill products.....	4,102	4,194	4,071	4,102	12,374	12,423	12,374	12,423	4,102	4,071	4,071	4,247	4,247	4,247	4,247	4,247	1982	1981
23	Paper and allied products.....	6,138	6,549	6,478	6,138	19,255	19,255	19,255	19,255	6,138	6,549	6,478	6,138	6,138	6,138	6,138	6,138	1982	1981
24	Pulp, paper, and allied products... paperboard containers.....	1,215	1,215	1,215	1,215	3,645	3,645	3,645	3,645	1,215	1,215	1,215	1,215	1,215	1,215	1,215	1,215	1982	1981
26	All other paper products.....	2,077	2,077	2,077	2,077	6,233	6,233	6,233	6,233	2,077	2,077	2,077	2,077	2,077	2,077	2,077	2,077	1982	1981
28	Chemical and allied products.....	14,534	14,551	14,559	14,534	43,744	41,638	43,744	41,638	14,534	14,551	14,559	14,534	14,534	14,534	14,534	14,534	1982	1981
281	Industrial chemicals, except drugs, soap, and toiletries.....	4,276	4,567	4,276	4,276	13,651	13,589	13,651	13,589	4,276	4,511	4,493	4,567	4,493	4,493	4,567	4,493	1982	1981
281,4	Petroleum and coal products...	17,498	16,976	17,592	17,498	52,146	51,048	52,146	51,048	17,510	17,006	17,341	17,780	18,194	18,194	18,088	18,194	1982	1981
29	Rubber and plastic products... non-metallic mineral products...	3,520	3,807	3,762	3,520	10,917	10,811	10,917	10,811	3,641	3,682	3,689	3,688	3,688	3,688	3,688	3,688	1982	1981
30	All other non-durable goods industries.....	11,950	11,989	11,740	11,374	35,539	34,269	35,539	34,269	12,746	12,554	11,939	11,490	11,668	11,490	11,490	11,490	1982	1981

¹ Preliminary.

² Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

³ The data are comparable to those published annually in the MA-15, "Shipments to Federal Government Agencies (formerly Shipments of Defense-Related Industries)." for the specific industries.

⁴ Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

⁵ Consumer goods industries--Comparable to the previous consumer goods and the defense products (old series) categories.

⁶ Intermediate goods industries--Comparable to the previous intermediate goods and the defense products (old series) categories.

⁷ Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

⁸ The data are comparable to those published annually in the MA-15, "Shipments to Federal Government Agencies (formerly Shipments of Defense-Related Industries)." for the specific industries.

⁹ The data are comparable to those published annually in the MA-15, "Shipments to Federal Government Agencies (formerly Shipments of Defense-Related Industries)." for the specific industries.

¹⁰ The data are comparable to those published annually in the MA-15, "Shipments to Federal Government Agencies (formerly Shipments of Defense-Related Industries)." for the specific industries.

¹¹ The data are comparable to those published annually in the MA-15, "Shipments to Federal Government Agencies (formerly Shipments of Defense-Related Industries)." for the specific industries.

¹² The data are comparable to those published annually in the MA-15, "Shipments to Federal Government Agencies (formerly Shipments of Defense-Related Industries)." for the specific industries.

¹³ The data are comparable to those published annually in the MA-15, "Shipments to Federal Government Agencies (formerly Shipments of Defense-Related Industries)." for the specific industries.

¹⁴ The data are comparable to those published annually in the MA-15, "Shipments to Federal Government Agencies (formerly Shipments of Defense-Related Industries)." for the specific industries.

Table 1. VALUE OF EXPORTED GOODS, NEW ORDERS FOR FOREIGN GOODS, SHIPMENT CANCELLATIONS, AND DEFERMENTS OF SHIPMENTS

(Millions of dollars)

Industry	Seasonally adjusted				Yearly				Monthly				Not seasonally adjusted			
	Yearly				Quarterly				Yearly				Quarterly			
	1967				1967				1967				1967			
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
TOTALS																
All manufacturing industries.....	135,410	114,680	138,598	137,009	137,009	137,009	137,009	137,009	137,009	137,009	137,009	137,009	137,009	137,009	137,009	137,009
Manufacturing industries with new orders.....	104,092	108,296	113,171	110,711	110,711	110,711	110,711	110,711	110,711	110,711	110,711	110,711	110,711	110,711	110,711	110,711
Manufacturing industries with cancellations.....	75,626	80,521	79,561	78,426	78,426	78,426	78,426	78,426	78,426	78,426	78,426	78,426	78,426	78,426	78,426	78,426
Durable goods industries.....	77,429	75,662	76,426	74,026	74,026	74,026	74,026	74,026	74,026	74,026	74,026	74,026	74,026	74,026	74,026	74,026
Non-durable goods industries.....	40,773	38,918	39,149	36,379	36,379	36,379	36,379	36,379	36,379	36,379	36,379	36,379	36,379	36,379	36,379	36,379
Manufacturing industries with unfilled orders.....	8,536	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000
Industries without unfilled orders.....	17,053	17,141	16,344	16,861	16,861	16,861	16,861	16,861	16,861	16,861	16,861	16,861	16,861	16,861	16,861	16,861
SHIPPING CANCELLATIONS																
Home goods and apparel.....	11,761	11,099	11,181	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099
Consumer staples.....	11,761	11,099	11,181	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099
Equipment and defense products.....	11,761	11,099	11,181	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099
Automotive equipment.....	11,761	11,099	11,181	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099
Construction materials, supplies, and intermediate products.....	11,761	11,099	11,181	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099
Other services, supplies, and intermediate products.....	11,761	11,099	11,181	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099	11,099
SUPPLEMENTARY SERIES																
Household durable goods index.....	9,991	9,970	9,991	9,991	9,991	9,991	9,991	9,991	9,991	9,991	9,991	9,991	9,991	9,991	9,991	9,991
Capital goods industries.....	24,611	24,007	24,007	24,007	24,007	24,007	24,007	24,007	24,007	24,007	24,007	24,007	24,007	24,007	24,007	24,007
Nondefense.....	19,780	19,780	19,780	19,780	19,780	19,780	19,780	19,780	19,780	19,780	19,780	19,780	19,780	19,780	19,780	19,780
Defense.....	5,831	5,227	5,227	5,227	5,227	5,227	5,227	5,227	5,227	5,227	5,227	5,227	5,227	5,227	5,227	5,227
INDUSTRY GOODS AND INDUSTRIES																
Durable goods industries.....	1,013	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007
Stones, clay, and glass.....	1,013	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007
Plastic, rubber, and other primary nonferrous and other primary.....	1,013	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007
Metal products.....	1,013	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007
Refined metal products.....	1,013	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007
Chemicals and allied products.....	1,013	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007
Machinery and turbines.....	1,013	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007
Construction, mining, and material-handling equipment.....	1,013	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007
General industrial machinery.....	1,013	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007	1,007

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(millions of dollars)

SIC	Industry	Seasonally adjusted				Quarterly				Not seasonally adjusted ¹								Year-to-date	
		Monthly				I				Last 4 months a year ago									
		Sept. 1982 ^a	Aug. 1982 ^a	July 1982 ^a	June 1982 ^a	II 1982 ^a	III 1982 ^a	IV 1982 ^a	I 1983 ^a	Sept. 1982 ^a	Aug. 1982 ^a	July 1982 ^a	June 1982 ^a	May 1982 ^a	Sept. 1981 ^a	Aug. 1981 ^a	July 1981 ^a	June 1981 ^a	1982
INDUSTRY GROUPS AND INDUSTRIES--																			
<i>(continued)</i>																			
Durable goods industries--																			
<i>(continued)</i>																			
36	Electrical machinery.....	12,081	11,572	12,396	11,705	36,049	36,101	36,015	36,015	12,357	11,247	11,651	12,106	12,769	11,761	11,542	13,106	107,625	107,427
361,2	Electrical transmission and distribution equipment and industrial apparatus.....	1,638	1,451	1,681	1,396	4,770	4,624	5,062	5,062	1,628	1,417	1,469	1,427	1,869	1,955	1,671	1,970	16,678	17,199
362	Household appliances.....	1,056	1,139	1,058	1,067	3,251	3,386	3,007	3,007	1,119	1,128	1,027	1,112	1,104	1,096	1,099	1,124	9,478	10,478
363	Radio and TV.....	789	511	711	653	2,011	2,212	2,039	2,039	871	625	580	831	1,034	863	537	1,150	6,119	6,682
369	Communication equipment.....	4,218	4,297	4,443	4,568	13,058	12,932	12,988	12,988	4,359	3,995	3,726	4,349	4,227	3,507	3,592	4,258	38,296	37,342
367	Electronic components.....	2,357	2,257	2,496	2,110	7,110	7,328	7,180	7,180	2,307	2,184	2,171	2,359	2,453	2,380	2,156	2,483	214,993	212,819
37	Transportation equipment.....	14,427	16,384	17,515	16,347	48,026	48,933	49,763	49,763	16,114	15,724	15,768	17,018	19,011	15,064	15,370	18,122	143,192	135,603
372,3	Aircraft, missiles, and spacecraft.....	3,822	5,175	4,989	4,560	13,986	15,191	20,522	20,522	4,693	3,891	4,175	4,812	7,001	4,136	5,411	4,755	47,833	42,006
3731	Shipbuilding and military tank vehicles.....	428	32	867	877	1,327	2,060	2,894	2,894	1,096	334	392	489	1,163	1,575	657	542	6,934	6,414
3795	Instruments and related products.....	4,147	3,904	3,847	3,767	11,898	11,583	11,801	11,801	4,143	3,883	3,426	4,127	4,189	3,865	3,774	4,421	35,102	33,547
38	All other durable goods industries.....	7,853	7,569	8,031	7,918	23,435	22,831	23,983	23,983	8,340	8,098	7,441	8,194	8,656	8,517	7,875	9,017	70,794	76,876

Provisionary.

^aRevised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day and calendar-month variations.

¹The supplementary series are groupings of the separate industry categories as follows:

Household durable goods industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radio and TV, optical-electronic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old services) categories.

Nondefense products--Comparable to the previous producers' capital goods and the defense products (old services) categories.

Nondefense products--Comparable to the previous producers' capital goods and the defense products (old services) categories.

Defense products--Based on separate reports on defense work filled by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and ordnance.

The data are comparable to those published annually in the 84-175, Shipments to Federal Government agencies (formerly Shipments of Government Industries), for the specified industries.

Table 3. VALUE OF MANUFACTURES: UTILITIES, MINING, AND INDUSTRY GROUPS, SECTOR CATEGORIES, AND SUPPLEMENTARY SERIES

SR	Industry	Seasonally adjusted												Not seasonally adjusted ¹											
		Monthly						Quarterly						Monthly											
		1987		1988		1989		1990		1991		1992		1993		1994		1995		1996		1997		1998	
		Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
TOTALS																									
32	All manufacturing industries.....	295,950	299,001	303,015	310,134	318,652	327,425	337,474	347,425	357,474	367,425	377,474	387,425	397,474	407,425	417,474	427,425	437,474	447,425	457,474	467,425	477,474	487,425	497,474	507,425
33	Manufacturing industries excluding transportation.....	186,824	189,146	191,468	193,790	196,112	198,434	200,756	203,078	205,400	207,722	210,044	212,366	214,688	217,010	219,332	221,654	223,976	226,298	228,620	230,942	233,264	235,586	237,908	240,230
34	Durable goods industries.....	286,742	290,001	293,260	296,519	300,000	303,259	306,518	309,777	313,036	316,295	319,554	322,813	326,072	329,331	332,590	335,849	339,108	342,367	345,626	348,885	352,144	355,403	358,662	361,921
35	Nondurable goods industries.....	9,208	9,955	9,747	11,615	12,640	13,665	14,690	15,715	16,740	17,765	18,790	19,815	20,840	21,865	22,890	23,915	24,940	25,965	26,990	28,015	29,040	30,065	31,090	32,115
MARKET CATEGORIES																									
353	Home goods and apparel.....	1,271	1,311	1,351	1,391	1,431	1,471	1,511	1,551	1,591	1,631	1,671	1,711	1,751	1,791	1,831	1,871	1,911	1,951	1,991	2,031	2,071	2,111	2,151	2,191
3531	Household durables.....	140,001	142,001	144,001	146,001	148,001	150,001	152,001	154,001	156,001	158,001	160,001	162,001	164,001	166,001	168,001	170,001	172,001	174,001	176,001	178,001	180,001	182,001	184,001	186,001
35311	Household furnishings, except automobiles.....	15,322	15,322	15,322	15,322	15,322	15,322	15,322	15,322	15,322	15,322	15,322	15,322	15,322	15,322	15,322	15,322	15,322	15,322	15,322	15,322	15,322	15,322	15,322	15,322
35312	Automotive equipment.....	97,424	98,134	98,844	99,554	100,264	100,974	101,684	102,394	103,104	103,814	104,524	105,234	105,944	106,654	107,364	108,074	108,784	109,494	110,204	110,914	111,624	112,334	113,044	113,754
35313	Construction materials, supplies, and other materials.....																								
35314	Intermediate products.....																								
3532	Supplementary series ²																								
35321	Household durable goods, industries.....	2,762	2,762	2,762	2,762	2,762	2,762	2,762	2,762	2,762	2,762	2,762	2,762	2,762	2,762	2,762	2,762	2,762	2,762	2,762	2,762	2,762	2,762	2,762	2,762
35322	Capital goods industries.....	211,860	211,860	211,860	211,860	211,860	211,860	211,860	211,860	211,860	211,860	211,860	211,860	211,860	211,860	211,860	211,860	211,860	211,860	211,860	211,860	211,860	211,860	211,860	211,860
35323	Defense.....	88,200	88,200	88,200	88,200	88,200	88,200	88,200	88,200	88,200	88,200	88,200	88,200	88,200	88,200	88,200	88,200	88,200	88,200	88,200	88,200	88,200	88,200	88,200	88,200
SUPPLEMENTARY SERIES ²																									
3533	INDUSTRY GROUPS AND INDUSTRIES																								
35331	Durable goods industries.....	1,780	1,780	1,780	1,780	1,780	1,780	1,780	1,780	1,780	1,780	1,780	1,780	1,780	1,780	1,780	1,780	1,780	1,780	1,780	1,780	1,780	1,780	1,780	1,780
353311	Stone, clay, and glass.....	21,899	21,899	21,899	21,899	21,899	21,899	21,899	21,899	21,899	21,899	21,899	21,899	21,899	21,899	21,899	21,899	21,899	21,899	21,899	21,899	21,899	21,899	21,899	21,899
353312	Primary metals.....	13,132	13,132	13,132	13,132	13,132	13,132	13,132	13,132	13,132	13,132	13,132	13,132	13,132	13,132	13,132	13,132	13,132	13,132	13,132	13,132	13,132	13,132	13,132	13,132
353313	Nonferrous and other primary metal products.....	6,391	6,391	6,391	6,391	6,391	6,391	6,391	6,391	6,391	6,391	6,391	6,391	6,391	6,391	6,391	6,391	6,391	6,391	6,391	6,391	6,391	6,391	6,391	6,391
353314	Fabricated metal products.....	24,367	24,367	24,367	24,367	24,367	24,367	24,367	24,367	24,367	24,367	24,367	24,367	24,367	24,367	24,367	24,367	24,367	24,367	24,367	24,367	24,367	24,367	24,367	24,367
353315	Machinery, except electrical.....	38,289	38,289	38,289	38,289	38,289	38,289	38,289	38,289	38,289	38,289	38,289	38,289	38,289	38,289	38,289	38,289	38,289	38,289	38,289	38,289	38,289	38,289	38,289	38,289
353316	Engines and turbines.....	15,153	15,153	15,153	15,153	15,153	15,153	15,153	15,153	15,153	15,153	15,153	15,153	15,153	15,153	15,153	15,153	15,153	15,153	15,153	15,153	15,153	15,153	15,153	15,153
353317	Construction, mining, and nonmetallic mineral products.....	6,370	6,370	6,370	6,370	6,370	6,370	6,370	6,370	6,370	6,370	6,370	6,370	6,370	6,370	6,370	6,370	6,370	6,370	6,370	6,370	6,370	6,370	6,370	6,370
353318	Metallurgical machinery.....	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759	2,759
353319	General industrial machinery.....	5,478	5,478	5,478	5,478	5,478	5,478	5,478	5,478	5,478	5,478	5,478	5,478	5,478	5,478	5,478	5,478	5,478	5,478	5,478	5,478	5,478	5,478	5,478	5,478

See footnotes at end of table.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued
(Billions of dollars)

SIC	Industry group	Monthly					Quarterly					Monthly					Not seasonally adjusted ¹	
		Seasonally adjusted					Seasonally adjusted					Seasonally adjusted						
		Sept. 1982 ^a	Aug. 1982 ^a	July 1982 ^a	June 1982 ^a	1982	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981		1981
	INDUSTRY GROUP AND INDUSTRIES--																	
	Continued																	
	Durable goods industries--	55,668	55,082	54,942	54,655	53,784	51,939	52,028	50,778	49,101	55,099	54,459	54,747	54,750	51,785	50,399	50,411	
36	Electrical machinery.....																	
	-distribution equipment and																	
	industrial appliances.....	7,689	7,576	7,704	7,864	8,462	8,705	8,906	8,849	8,400	7,468	7,411	7,431	7,366	8,889	8,947	8,443	
361	Refrigerators.....	338	361	310	306	323	333	383	439	419	316	316	361	407	389	417	460	
363	Radio and television.....	415	297	192	476	359	369	526	414	418	516	426	413	431	650	509	365	
364	Refrigerators.....	34,873	34,252	33,654	33,268	31,690	29,497	29,423	26,239	27,019	34,202	33,652	33,222	33,050	28,418	28,747	28,593	
365	Communication equipment.....	11,441	11,527	11,711	11,714	11,852	11,739	11,635	11,677	11,296	11,458	11,688	11,864	11,737	11,859	11,861	11,897	
367	Electronic components.....	113,116	114,955	116,359	116,652	116,528	117,739	116,791	115,427	115,362	111,557	111,557	114,415	115,675	115,663	114,216	115,516	
	Transportation equipment.....																	
37	Trucks, tractors, and trailers.....																	
	trucks.....	89,762	91,151	91,178	91,494	92,483	87,237	89,054	87,525	88,151	88,533	89,456	90,267	91,008	87,888	86,869	87,479	
372,6	Trucks, tractors, and trailers.....																	
	shipbuilding and military																	
3731	tanks, vehicles.....	17,899	18,416	19,257	19,161	19,503	19,449	19,993	19,732	19,110	18,043	17,499	18,493	19,056	20,113	19,493	19,496	
3735	aircraft.....																	
38	Instruments and related																	
	instruments.....	7,220	7,078	7,069	7,128	7,362	7,189	7,112	7,034	6,964	7,186	7,119	7,110	7,302	7,091	7,124	7,113	
25	All other durable goods																	
39	Industries.....	4,393	4,424	4,364	4,497	5,313	4,801	4,911	4,931	4,815	4,416	4,770	4,798	4,848	4,997	5,204	5,239	

^a Preliminary.

^b Revised.

Shipments and new orders are the total for the period and are adjusted for training-day and calendar-month variations. Inventories are of the end of the period and are not adjusted for training-day calendar-month variations. Recombinants of the separate industry categories are as follows:
Household durable goods industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, radios and TV; optoelectronic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products, old series categories.
Nondefense products--Comparable to the previous producers' nondefense products, old series categories.
Defense products--Based on defense reports on defense work filed by large defense contractors in the following industries: Aerospace, communication equipment, aircraft and aircraft parts, and shipbuilding.
The data are comparable to those published annually in the WPI's, "Shipments and New Orders" (formerly "Shipments of Intermediate Products"), for the specified industries.

Industry	Sectorally adjusted					Geographically adjusted					Not geographically adjusted				
	1927					1927					1927				
	Exp'd	1927	1928	1929	1930	Exp'd	1927	1928	1929	1930	Exp'd	1927	1928	1929	1930
MANUFACTURING INDUSTRIES															
Iron and steel industries.....	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110	27,110
Nonferrous metal industries.....	18,245	18,245	18,245	18,245	18,245	18,245	18,245	18,245	18,245	18,245	18,245	18,245	18,245	18,245	18,245
Stone, clay, and glass products.....	6,138	6,138	6,138	6,138	6,138	6,138	6,138	6,138	6,138	6,138	6,138	6,138	6,138	6,138	6,138
Food and kindred products.....	2,791	2,791	2,791	2,791	2,791	2,791	2,791	2,791	2,791	2,791	2,791	2,791	2,791	2,791	2,791
Textile mill industries.....	29,088	29,088	29,088	29,088	29,088	29,088	29,088	29,088	29,088	29,088	29,088	29,088	29,088	29,088	29,088
Nonferrous metal industries.....	33,081	33,081	33,081	33,081	33,081	33,081	33,081	33,081	33,081	33,081	33,081	33,081	33,081	33,081	33,081
Electrical machinery.....	26,650	26,650	26,650	26,650	26,650	26,650	26,650	26,650	26,650	26,650	26,650	26,650	26,650	26,650	26,650
Transportation equipment.....	41,211	41,211	41,211	41,211	41,211	41,211	41,211	41,211	41,211	41,211	41,211	41,211	41,211	41,211	41,211
Chemical and allied products.....	44,117	44,117	44,117	44,117	44,117	44,117	44,117	44,117	44,117	44,117	44,117	44,117	44,117	44,117	44,117
All other durable goods industries.....	90,751	90,751	90,751	90,751	90,751	90,751	90,751	90,751	90,751	90,751	90,751	90,751	90,751	90,751	90,751
Non-durable goods industries.....	21,117	21,117	21,117	21,117	21,117	21,117	21,117	21,117	21,117	21,117	21,117	21,117	21,117	21,117	21,117
Chemicals and allied products.....	9,110	9,110	9,110	9,110	9,110	9,110	9,110	9,110	9,110	9,110	9,110	9,110	9,110	9,110	9,110
Petroleum and coal products.....	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
Rubber and plastics products, n.e.c.....	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
All other non-durable goods industries.....	42,919	42,919	42,919	42,919	42,919	42,919	42,919	42,919	42,919	42,919	42,919	42,919	42,919	42,919	42,919
VEHICLES AND SUPPLIES															
All manufacturing industries.....	91,698	91,698	91,698	91,698	91,698	91,698	91,698	91,698	91,698	91,698	91,698	91,698	91,698	91,698	91,698
Durable goods industries.....	51,741	51,741	51,741	51,741	51,741	51,741	51,741	51,741	51,741	51,741	51,741	51,741	51,741	51,741	51,741
Stone, clay, and glass products.....	2,191	2,191	2,191	2,191	2,191	2,191	2,191	2,191	2,191	2,191	2,191	2,191	2,191	2,191	2,191
Food and kindred products.....	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
Textile mill industries.....	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
Nonferrous metal industries.....	11,741	11,741	11,741	11,741	11,741	11,741	11,741	11,741	11,741	11,741	11,741	11,741	11,741	11,741	11,741
Electrical machinery.....	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
Transportation equipment.....	19,741	19,741	19,741	19,741	19,741	19,741	19,741	19,741	19,741	19,741	19,741	19,741	19,741	19,741	19,741
Chemical and allied products.....	11,741	11,741	11,741	11,741	11,741	11,741	11,741	11,741	11,741	11,741	11,741	11,741	11,741	11,741	11,741
All other durable goods industries.....	5,110	5,110	5,110	5,110	5,110	5,110	5,110	5,110	5,110	5,110	5,110	5,110	5,110	5,110	5,110
Non-durable goods industries.....	39,957	39,957	39,957	39,957	39,957	39,957	39,957	39,957	39,957	39,957	39,957	39,957	39,957	39,957	39,957
Chemicals and allied products.....	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111
Petroleum and coal products.....	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
Rubber and plastics products, n.e.c.....	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
All other non-durable goods industries.....	23,741	23,741	23,741	23,741	23,741	23,741	23,741	23,741	23,741	23,741	23,741	23,741	23,741	23,741	23,741
WORK IN PROCESS															
All manufacturing industries.....	80,406	80,406	80,406	80,406	80,406	80,406	80,406	80,406	80,406	80,406	80,406	80,406	80,406	80,406	80,406
Durable goods industries.....	48,111	48,111	48,111	48,111	48,111	48,111	48,111	48,111	48,111	48,111	48,111	48,111	48,111	48,111	48,111
Stone, clay, and glass products.....	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111
Food and kindred products.....	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111	9,111
Textile mill industries.....	17,741	17,741	17,741	17,741	17,741	17,741	17,741	17,741	17,741	17,741	17,741	17,741	17,741	17,741	17,741
Nonferrous metal industries.....	13,641	13,641	13,641	13,641	13,641	13,641	13,641	13,641	13,641	13,641	13,641	13,641	13,641	13,641	13,641
Electrical machinery.....	13,641	13,641	13,641	13,641	13,641	13,641	13,641	13,641	13,641	13,641	13,641	13,641	13,641	13,641	13,641
Transportation equipment.....	24,951	24,951	24,951	24,951	24,951	24,951	24,951	24,951	24,951	24,951	24,951	24,951	24,951	24,951	24,951
Chemical and allied products.....	14,951	14,951	14,951	14,951	14,951	14,951	14,951	14,951	14,951	14,951	14,951	14,951	14,951	14,951	14,951
All other durable goods industries.....	3,111	3,111	3,111	3,111	3,111	3,111	3,111	3,111	3,111	3,111	3,111	3,111	3,111	3,111	3,111
Non-durable goods industries.....	32,295	32,295	32,295	32,295	32,295	32,295	32,295	32,295	32,295	32,295	32,295	32,295	32,295	32,295	32,295
Chemicals and allied products.....	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
Petroleum and coal products.....	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
Rubber and plastics products, n.e.c.....	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
All other non-durable goods industries.....	23,741	23,741	23,741	23,741	23,741	23,741	23,741	23,741	23,741	23,741	23,741	23,741	23,741	23,741	23,741
FINISHED GOODS															
All manufacturing industries.....	86,186	86,186	86,186	86,186	86,186	86,186	86,186	86,186	86,186	86,186	86,186	86,186	86,186	86,186	86,186
Durable goods industries.....	47,001	47,001	47,001	47,001	47,001	47,001	47,001	47,001	47,001	47,001	47,001	47,001	47,001	47,001	47,001
Stone, clay, and glass products.....	3,111	3,111	3,111	3,111	3,111	3,111	3,111	3,111	3,111	3,111	3,111	3,111	3,111	3,111	3,111
Food and kindred products.....	6,111	6,111	6,111	6,111	6,111	6,111	6,111	6,111	6,111	6,111	6,111	6,111	6,111	6,111	6,111
Textile mill industries.....	15,081	15,081	15,081	15,081	15,081	15,081	15,081	15,081	15,081	15,081	15,081	15,081	15,081	15,081	15,081
Nonferrous metal industries.....	15,081	15,081	15,081	15,081	15,081	15,081	15,081	15,081	15,081	15,081	15,081	15,081	15,081	15,081	15,081
Electrical machinery.....	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111
Transportation equipment.....	4,111	4,111	4,111	4,111	4,111	4,111	4,111	4,111	4,111	4,111	4,111	4,111	4,111	4,111	4,111
Chemical and allied products.....	2,491	2,491	2,491	2,491	2,491	2,491	2,491	2,491	2,491	2,491	2,491	2,491	2,491	2,491	2,491
All other durable goods industries.....	5,111	5,111	5,111	5,111	5,111	5,111	5,111	5,111	5,111	5,111	5,111	5,111	5,111	5,111	5,111
Non-durable goods industries.....	39,185	39,185	39,185	39,185	39,185	39,185	39,185	39,185	39,185	39,185	39,185	39,185	39,185	39,185	39,185
Chemicals and allied products.....	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111	8,111
Petroleum and coal products.....	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
Rubber and plastics products, n.e.c.....	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
All other non-durable goods industries.....	7,741	7,741	7,741	7,741	7,741	7,741	7,741	7,741	7,741	7,741	7,741	7,741	7,741	7,741	7,741
PRELIMINARY															

*Preliminary.

Table 6. PERCENT CHANGES AND REVISIONS OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent changes							Revisions ²		
	Month-to-month			Average monthly rates of change ¹				Year ago Sept. 1981	Average monthly	
	Aug. 1982- Sept. 1982	July 1982- Aug. 1982	June 1982- July 1982	Third quarter 1982	Second quarter 1982	First quarter 1982	Oct.-1981 through Sept.-1982		Sept. 1981 through Aug. 1982	Sept. 1977-81
Shipments:										
All manufacturing industries.....	0.0	-1.7	-0.1	-0.6	+0.8	-0.4	-0.5	0.4	0.3	0.3
Durable goods industries.....	-1.4	-2.3	+0.2	-1.2	+0.1	-0.4	-0.9	0.0	0.3	0.2
Nondurable goods industries.....	+1.2	-1.2	-0.3	-0.1	+1.3	-0.5	-0.1	0.7	0.4	0.4
Inventories:										
All manufacturing industries.....	-0.8	-0.2	-0.1	-0.4	-0.6	-0.4	+0.3	0.1	0.1	0.2
New orders:										
All manufacturing industries.....	+0.7	-2.7	+1.0	-0.3	0.0	-0.1	-0.6	0.1	0.3	0.5
Durable goods industries.....	-0.1	-4.5	+2.5	-0.7	-1.4	-1.6	-1.2	0.6	0.7	0.5
Nondurable goods industries.....	+1.5	-0.9	-0.4	0.0	+1.3	-0.4	-0.1	0.8	0.4	0.6
Unfilled orders:										
Durable goods industries.....	-1.1	-1.4	-0.9	-1.1	-1.0	-0.3	-0.8	0.1	0.1	0.2

- Represents zero.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the sample averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Sept. 1982	Aug. 1982	July 1982	June 1982	Sept. 1982	Aug. 1982	July 1982	June 1982
All manufacturing industries.....	1.72	1.73	1.70	1.70	3.67	3.69	3.67	3.69
Durable goods industries.....	2.40	2.38	2.33	2.34	4.49	4.55	4.49	4.51
Stone, clay, and glass products.....	1.69	1.71	1.68	1.66	0.54	0.52	0.51	0.51
Primary metals.....	2.92	2.88	2.90	2.86	2.67	2.65	2.65	2.58
Fabricated metals.....	2.02	1.98	1.93	1.98	2.84	2.84	2.83	2.95
Machinery, except electrical.....	2.82	2.93	2.95	2.84	4.07	4.26	4.42	4.38
Electrical machinery.....	2.32	2.35	2.22	2.32	4.84	4.82	4.54	4.70
Transportation equipment.....	2.48	2.26	2.21	2.22	11.63	11.58	11.14	10.96
Instruments and related products.....	2.36	2.41	2.41	2.34	1.80	1.82	1.81	1.78
Nondurable goods industries.....	1.08	1.12	1.11	1.10	0.55	0.52	0.53	0.54
Food and kindred products.....	0.86	0.91	0.87	0.85	(X)	(X)	(X)	(X)
Tobacco products.....	2.97	3.78	4.79	3.48	(X)	(X)	(X)	(X)
Textile mill products.....	1.56	1.52	1.58	1.51	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.40	1.34	1.35	1.36	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.41	1.42	1.46	1.44	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.52	0.55	0.52	0.52	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.57	1.61	1.54	1.61	(X)	(X)	(X)	(X)

(NA) Not available. (X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

U.S. Department of Commerce
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M 3-1 (82)-10

Manufacturers' Shipments, Inventories, and Orders

OCTOBER 1982

M3-1(82)-10

FOR WIRE TRANSMISSION 3 00 P.M. E.S.T. THURSDAY, DECEMBER 2, 1982

U.S. Department of Commerce
BUREAU OF THE CENSUS

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in October declined \$6.0 billion or 3.9 percent from September to \$150.1 billion the Department of Commerce, Bureau of the Census reported today. After orders peaked in July 1981 at \$172.1 billion, successive monthly declines were recorded thru January of this year. Orders fluctuated between \$155 and \$159 billion from February to September. The October estimate of \$150.1 billion is the lowest recorded since June 1980.

Shipments of manufactured goods in October were down \$6.5 billion or 4.1 percent to \$152.8 billion. This is the largest one month decline since the 4.1 percent decrease recorded in April 1979.

The backlog of orders held by manufacturers at the end of October was \$293.2 billion, down \$2.6 billion or 0.9 percent from September. This is the 15th consecutive monthly decrease in unfilled orders, as shipments have exceeded new orders during that period by \$35.6 billion, an average of 1.5 percent per month.

The book value of manufacturers inventories in October showed a very small decrease from September, down \$0.2 billion or 0.1 percent to \$272.3 billion. This coupled with the large decline in shipments caused a sharp increase in the inventory to shipments ratio from 1.71 in September to 1.78 in October.

Within the major industry categories new order declines were widespread. The major durable goods declines were in primary metals, down \$1.0 billion or 12.6 percent to \$7.0 billion; machinery, down \$1.3 billion or 4.9 percent to \$24.7 billion; and transportation equipment, down \$0.5 billion or 3.1 percent to \$14.4 billion. The decline in transportation equipment reflected a large decrease in the motor vehicle and parts industry which was only partially offset by increases in the aircraft and parts, shipbuilding and railroad equipment categories.

New orders for nondefense capital goods in October were down \$0.1 billion or 0.5 percent to \$20.2 billion, as declines

in the machinery components more than offset increases in aircraft and parts and shipbuilding. New orders for defense capital goods were up \$0.4 billion or 8.7 percent to \$4.7 billion, following an 18.4 percent decline last month.

The shipments declines were also widespread within the major industry categories. The largest decreases in the durable goods sector were registered in the nonelectrical machinery, the transportation equipment and the primary metals categories. Within nonelectrical machinery all industries were down except farm machinery; within transportation equipment, decreases in motor vehicle and parts shipments of \$1.7 billion or 17.3 percent was only partially offset by an increase in aircraft and parts shipments; the steel industry accounted for virtually all of the primary metals decline. Within the nondurable goods sector, the largest declines were in food product shipments, down \$0.8 billion or 3.3 percent; and chemical shipments, down \$0.8 billion or 5.2 percent.

The book value of manufacturers' inventories at the end of October was valued at \$272.3 billion, down \$0.2 billion or 0.1 percent from September. Inventories have declined every month this year except February, and are now 3.8 percent below the 1981 end of year level of \$283.2 billion. Raw materials inventories at \$89.7 billion in October were down 7.0 percent from last December, while work in process inventories in October were estimated at \$95.4 billion, down 3.6 percent from December. The October estimate of finished goods inventories of \$87.2 billion was only 0.6 percent below last December.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for November is scheduled for release on December 21, 1982, and full report is scheduled for release on January 3, 1983.

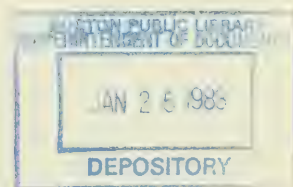


Table 1. VALUE OF MANUFACTURES: SUPPLIERS' 1996-INDUSTRY GROUPS, MARKET ATTRIBUTES, AND SUPPLEMENTARY SERIES

SIC	Industry	seasonally adjusted					NOT seasonally adjusted					
		quarterly					monthly					
		Aug. 1992	Nov. 1992	Feb. 1993	May 1993	1993	Sept. 1992	Dec. 1992	Mar. 1993	June 1993	1993	
		TOTALS										
33	All manufacturing industries	13,429	14,195	13,759	13,759	13,759	13,759	13,759	13,759	13,759	13,759	13,759
331	Manufacturing industries	13,429	14,195	13,759	13,759	13,759	13,759	13,759	13,759	13,759	13,759	13,759
331-9	Manufacturing industries with unfilled orders	7,741	8,060	7,741	7,741	7,741	7,741	7,741	7,741	7,741	7,741	7,741
34	Durable goods industries	7,741	8,060	7,741	7,741	7,741	7,741	7,741	7,741	7,741	7,741	7,741
341	Durable goods with unfilled orders	7,741	8,060	7,741	7,741	7,741	7,741	7,741	7,741	7,741	7,741	7,741
35	Non-durable goods industries	5,688	6,135	6,018	6,018	6,018	6,018	6,018	6,018	6,018	6,018	6,018
351	Non-durable goods with unfilled orders	5,688	6,135	6,018	6,018	6,018	6,018	6,018	6,018	6,018	6,018	6,018
352	Non-durable goods with unfilled orders	5,688	6,135	6,018	6,018	6,018	6,018	6,018	6,018	6,018	6,018	6,018
353	Non-durable goods with unfilled orders	5,688	6,135	6,018	6,018	6,018	6,018	6,018	6,018	6,018	6,018	6,018
354	Non-durable goods with unfilled orders	5,688	6,135	6,018	6,018	6,018	6,018	6,018	6,018	6,018	6,018	6,018
355	Non-durable goods with unfilled orders	5,688	6,135	6,018	6,018	6,018	6,018	6,018	6,018	6,018	6,018	6,018
356	Non-durable goods with unfilled orders	5,688	6,135	6,018	6,018	6,018	6,018	6,018	6,018	6,018	6,018	6,018
MARKET ATTRIBUTES												
33	Final goods and services	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254
331	Consumer staples	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254
331-9	Consumer staples	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254
34	Consumer electronics	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254
35	Automotive equipment	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254
351	Automotive equipment	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254
352	Construction materials, supplies, and intermediate products	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254
353	Intermediate products	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254
354	Intermediate products	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254
355	Intermediate products	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254
356	Intermediate products	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254	11,254
SUPPLEMENTARY SERIES												
33	Household durable goods index	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779
331	Glass containers	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779
331-9	Glass containers	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779
34	Primary metals	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779
35	Food, kindred, and allied products	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779
351	Food, kindred, and allied products	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779
352	Textiles, apparel, and leather	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779
353	Textiles, apparel, and leather	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779
354	Textiles, apparel, and leather	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779
355	Textiles, apparel, and leather	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779
356	Textiles, apparel, and leather	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779	4,779
INDUSTRY GROUPS AND INDUSTRIES												
33	Durable goods industries	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
331	Household durable goods index	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
331-9	Household durable goods index	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
34	Primary metals	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
35	Food, kindred, and allied products	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
351	Food, kindred, and allied products	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
352	Textiles, apparel, and leather	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
353	Textiles, apparel, and leather	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
354	Textiles, apparel, and leather	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
355	Textiles, apparel, and leather	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400
356	Textiles, apparel, and leather	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	Seasonally adjusted				Quarterly		Monthly				Not seasonally adjusted ¹				Year-to-year	
		Monthly				Quarterly		Last 4 months				Last 4 months a year ago				Year-to-year	
		Oct. 1982 ^a	Sept. 1982 ^b	Aug. 1982	July 1982	III 1982 ^c	II 1982	Oct. 1982 ^a	Sept. 1982 ^b	Aug. 1982	July 1982	Oct. 1981	Sept. 1981	Aug. 1981	July 1981	1982	1981
	INDUSTRY GOODS AND INDUSTRIES-- Continued																
	Durable goods and industries-- Continued	11,422	11,422	11,436	11,108	34,994	34,228	34,170	11,554	12,976	11,131	10,694	11,488	12,537	11,400	11,484	11,018
36	Electrical machinery.....	1,455	1,733	1,671	1,731	5,115	5,222	5,307	1,573	1,786	1,615	1,503	1,859	1,827	1,624	1,700	1,804
361	Distribution equipment and transmission and distribution equipment.....	1,062	1,173	1,104	1,051	3,213	3,105	3,016	1,104	1,134	1,134	1,013	1,192	1,210	1,134	1,104	1,122
362	Household appliances.....	342	567	607	744	1,998	2,095	2,028	682	763	692	763	908	883	714	896	1,112
368	Electronic equipment.....	3,970	3,727	3,985	4,068	11,498	11,532	11,525	3,492	3,981	3,912	3,981	4,293	4,434	3,972	4,293	4,684
369	Electronic components.....	1,780	1,692	1,748	1,786	5,697	5,697	5,697	1,786	1,786	1,786	1,786	1,786	1,786	1,786	1,786	1,786
37	Transportation equipment.....	1,780	1,692	1,748	1,786	5,697	5,697	5,697	1,786	1,786	1,786	1,786	1,786	1,786	1,786	1,786	1,786
371	Motor vehicles and parts.....	7,911	9,306	11,018	10,918	31,534	30,028	29,227	9,219	9,704	8,642	8,412	10,269	9,302	8,135	9,302	10,000
372	Aircraft, missiles, and parts.....	5,927	5,307	5,201	5,306	1,814	1,843	1,926	5,915	5,988	5,852	5,806	6,117	5,982	5,715	6,117	6,200
373	Ships, boats, and military vehicles.....	852	951	893	989	1,794	1,793	1,839	871	988	849	936	911	983	1,008	948	948
378	Instruments and related products.....	1,843	1,843	1,843	1,843	11,828	11,828	11,828	1,843	1,843	1,843	1,843	1,843	1,843	1,843	1,843	1,843
381-4	Scientific and engineering.....	1,432	1,432	1,432	1,432	4,986	4,986	4,986	1,432	1,432	1,432	1,432	1,432	1,432	1,432	1,432	1,432
382	Photographic.....	1,432	1,432	1,432	1,432	4,986	4,986	4,986	1,432	1,432	1,432	1,432	1,432	1,432	1,432	1,432	1,432
383	All other durable goods industries.....	7,881	7,613	7,911	8,106	23,000	23,000	23,000	7,881	8,106	8,106	8,106	8,106	8,106	8,106	8,106	8,106
20-80	Non-durable goods and industries.....	27,043	27,043	27,043	27,043	88,830	88,830	88,830	27,043	27,043	27,043	27,043	27,043	27,043	27,043	27,043	27,043
20	Food and kindred products.....	1,408	1,408	1,408	1,408	4,826	4,826	4,826	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408
201	Meat products.....	6,403	6,403	6,403	6,403	18,603	18,603	18,603	6,403	6,403	6,403	6,403	6,403	6,403	6,403	6,403	6,403
202	Dairy products.....	1,408	1,408	1,408	1,408	4,826	4,826	4,826	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408
203	Beverages.....	1,408	1,408	1,408	1,408	4,826	4,826	4,826	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408
204	Tobacco products.....	1,408	1,408	1,408	1,408	4,826	4,826	4,826	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408	1,408
21	Textile mill products.....	4,104	4,198	4,074	4,257	12,423	12,423	12,423	4,104	4,198	4,074	4,257	12,423	12,423	12,423	12,423	12,423
22	Paper and allied products.....	6,427	6,294	6,278	6,344	19,474	19,474	19,474	6,427	6,294	6,278	6,344	19,474	19,474	19,474	19,474	19,474
23	Chemical and allied products.....	1,515	1,516	1,511	1,510	4,478	4,478	4,478	1,515	1,516	1,511	1,510	4,478	4,478	4,478	4,478	4,478
264	All other paper products.....	1,510	1,511	1,506	1,505	4,473	4,473	4,473	1,510	1,511	1,506	1,505	4,473	4,473	4,473	4,473	4,473
28	Chemicals and allied products.....	13,626	14,197	14,551	14,759	42,427	42,427	42,427	13,626	14,197	14,551	14,759	42,427	42,427	42,427	42,427	42,427
281-6	Industrial chemicals, ex- cept drugs, soap, and toilet preparations.....	9,899	9,628	9,567	9,670	28,589	28,589	28,589	9,899	9,628	9,567	9,670	28,589	28,589	28,589	28,589	28,589
282	Drugs, soap, and toilet pre- parations.....	3,941	4,569	4,990	5,080	13,838	13,838	13,838	3,941	4,569	4,990	5,080	13,838	13,838	13,838	13,838	13,838
29	Petroleum and coal products.....	17,387	17,441	16,976	17,690	52,067	52,067	52,067	17,387	17,441	16,976	17,690	52,067	52,067	52,067	52,067	52,067
30	Rubber and plastics products.....	3,526	3,500	3,497	3,497	10,491	10,491	10,491	3,526	3,500	3,497	3,497	10,491	10,491	10,491	10,491	10,491
31	Leather and leather products.....	1,408	1,408	1,408	1,408	4,826	4,826	4,826	1,408	1,408	1,408	1,408	4,826	4,826	4,826	4,826	4,826
32	Other non-durable goods industries.....	11,649	11,768	11,489	11,760	35,007	35,007	35,007	11,649	11,768	11,489	11,760	35,007	35,007	35,007	35,007	35,007

Professors	Reviewed
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¹ Shipments and new orders are the totals trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows

Household durable goods industries--Household furniture, kitchen articles and pottery,

neous personal goods.

Table 2. VALUE OF MANUFACTURES: NEW ORDERS OF INDUSTRIES GROUPS, MONTHLY, 1952-1954, IN \$100,000,000

(Billions of dollars)

SI	Industry	Seasonally adjusted					Not seasonally adjusted									
		Monthly					Months									
		Quarterly														
		1952	1953	1954	1955	1956	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961
1952	1953	1954	1955	1956	1957	1958	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961
190,160	134,380	146,380	146,380	146,380	146,380	146,380	146,380	146,380	146,380	146,380	146,380	146,380	146,380	146,380	146,380	146,380
13,759	134,380	146,380	146,380	146,380	146,380	146,380	146,380	146,380	146,380	146,380	146,380	146,380	146,380	146,380	146,380	146,380
7,792	76,247	76,247	76,247	76,247	76,247	76,247	76,247	76,247	76,247	76,247	76,247	76,247	76,247	76,247	76,247	76,247
69,857	71,266	71,266	71,266	71,266	71,266	71,266	71,266	71,266	71,266	71,266	71,266	71,266	71,266	71,266	71,266	71,266
58,480	60,483	60,483	60,483	60,483	60,483	60,483	60,483	60,483	60,483	60,483	60,483	60,483	60,483	60,483	60,483	60,483
80,763	82,610	82,610	82,610	82,610	82,610	82,610	82,610	82,610	82,610	82,610	82,610	82,610	82,610	82,610	82,610	82,610
16,812	17,141	17,141	17,141	17,141	17,141	17,141	17,141	17,141	17,141	17,141	17,141	17,141	17,141	17,141	17,141	17,141
63,451	66,386	66,386	66,386	66,386	66,386	66,386	66,386	66,386	66,386	66,386	66,386	66,386	66,386	66,386	66,386	66,386
19,799	10,478	11,098	11,098	11,098	11,098	11,098	11,098	11,098	11,098	11,098	11,098	11,098	11,098	11,098	11,098	11,098
30,137	31,386	31,386	31,386	31,386	31,386	31,386	31,386	31,386	31,386	31,386	31,386	31,386	31,386	31,386	31,386	31,386
22,382	22,382	22,382	22,382	22,382	22,382	22,382	22,382	22,382	22,382	22,382	22,382	22,382	22,382	22,382	22,382	22,382
5,111	11,267	11,267	11,267	11,267	11,267	11,267	11,267	11,267	11,267	11,267	11,267	11,267	11,267	11,267	11,267	11,267
11,408	11,491	11,491	11,491	11,491	11,491	11,491	11,491	11,491	11,491	11,491	11,491	11,491	11,491	11,491	11,491	11,491
66,771	68,531	68,531	68,531	68,531	68,531	68,531	68,531	68,531	68,531	68,531	68,531	68,531	68,531	68,531	68,531	68,531
4,726	4,870	4,870	4,870	4,870	4,870	4,870	4,870	4,870	4,870	4,870	4,870	4,870	4,870	4,870	4,870	4,870
24,881	24,881	24,881	24,881	24,881	24,881	24,881	24,881	24,881	24,881	24,881	24,881	24,881	24,881	24,881	24,881	24,881
4,712	4,712	4,712	4,712	4,712	4,712	4,712	4,712	4,712	4,712	4,712	4,712	4,712	4,712	4,712	4,712	4,712
INDUSTRY GROUPS AND INDUSTRIES																
Durable goods industries																
32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
331	331	331	331	331	331	331	331	331	331	331	331	331	331	331	331	331
333-5	333-5	333-5	333-5	333-5	333-5	333-5	333-5	333-5	333-5	333-5	333-5	333-5	333-5	333-5	333-5	333-5
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351
353	353	353	353	353	353	353	353	353	353	353	353	353	353	353	353	353
354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354	354
355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES -Continued
(Billions of dollars)

SIC	Industry	Seasonally adjusted				Quarterly				Not seasonally adjusted ¹												Year-to-date	
		Monthly				I				Monthly												Year-to-date	
						II																	
		Oct. 1982 ^b	Sept. 1982 ^b	Aug. 1982	July 1982	111 1982 ^b	111 1982	111 1982	I 1982	Oct. 1982 ^b	Sept. 1982 ^b	Aug. 1982	July 1982	Oct. 1981	Sept. 1981	Aug. 1981	July 1981						
	INDUSTRY GROUPS AND INDUSTRIES-- Continued																						
	Durable goods industries--																						
	Continued																						
36	Electrical machinery.....	10,070	12,025	11,572	12,396	35,993	36,101	36,015	36,015	11,972	12,262	11,267	10,651	11,652	12,769	11,761	10,842					119,532	118,979
361,2	Electrical transmission and distribution equipment and industrial apparatus.....	1,695	1,639	1,451	1,681	4,771	4,824	5,004	5,004	1,535	1,629	1,417	1,409	1,493	1,959	1,954	1,672					16,206	18,889
363	Radio and TV sets.....	1,040	1,050	1,000	1,000	2,861	2,861	2,861	2,861	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000					4,000	4,000
365	Radio and TV sets.....	367	369	511	711	1,872	2,061	2,039	2,039	519	701	625	580	577	1,023	869	37					1,429	1,429
366	Communication equipment.....	3,715	4,556	4,297	4,443	13,296	12,912	12,988	12,988	4,469	4,593	3,495	3,726	3,883	4,227	3,507	3,193					42,999	37,225
367	Electronic components.....	2,485	2,276	2,257	2,496	7,029	7,138	7,180	7,180	2,520	2,184	2,220	2,184	2,289	2,260	4,380	2,156					24,370	24,127
369	Transportation equipment.....	14,362	14,828	16,084	17,515	48,627	48,553	49,625	49,625	17,361	16,521	12,554	13,708	18,211	18,031	15,089	15,170					160,960	173,053
372,6	Transportation equipment.....	5,197	4,181	5,175	4,989	14,345	15,193	20,522	20,522	6,827	5,027	3,891	4,175	6,131	7,001	4,336	5,411					55,326	55,327
3731	Shipbuilding and military tank vehicles.....	718	376	32	867	1,275	2,348	2,894	2,894	721	954	334	392	971	1,183	1,575	820					7,623	10,885
3795	Instrument and related products.....	3,750	4,135	3,904	3,867	11,886	11,583	11,801	11,801	3,887	4,336	3,823	3,426	4,092	4,189	3,865	3,799					38,982	39,434
24	All other durable goods industries.....	7,798	7,797	7,569	8,033	23,379	22,831	23,983	23,983	8,351	8,272	8,098	7,441	8,491	8,658	8,517	7,775					79,077	85,387

¹ Preliminary. Revised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware, household appliances, radio and TV, optical-electronic goods, watches, and miscellaneous personal goods.
Consumer durables--Comparable to the previous producers' capital goods and the defense products (old series) categories.
Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.
Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.
The data are comparable to those published annually in the M-1 (7). Shipments to Federal Government agencies (formerly Shipments of Defense-Related Industries), for the specified industries.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted												Not seasonally adjusted			
		Monthly			Quarterly									Monthly			
		Sept. 1982	Aug. 1982	July 1982	I 1982	II 1982	III 1982	IV 1982	I 1981	II 1981	III 1981	IV 1981	Oct. 1981	Sept. 1982	Aug. 1982	July 1982	Oct. 1981
36	INDUSTRY GROUPS AND INDUSTRIES--continued	26,709	26,669	26,834	27,526	28,142	28,110	27,234	26,373	26,430	26,427	27,378	28,098	27,849	27,846	27,764	
361, 2	Durable goods industries--continued																
361	Electrical machinery.....	4,200	4,221	4,306	4,376	4,376	4,210	4,062	4,190	4,184	4,184	4,184	4,184	4,184	4,184	4,184	
362	Electrical transmission and distribution equipment and apparatus.....	1,848	1,831	1,826	1,886	1,886	2,000	1,856	1,743	1,743	1,743	1,743	1,743	1,743	1,743	1,743	
363	Household appliances.....	1,631	1,665	1,629	1,674	1,674	1,732	1,806	1,534	1,534	1,534	1,534	1,534	1,534	1,534	1,534	
369	Radio and TV.....	9,189	9,360	9,339	9,334	9,334	9,413	9,337	9,241	9,241	9,241	9,241	9,241	9,241	9,241	9,241	
369	Communication equipment.....	4,254	4,257	4,257	4,257	4,257	4,257	4,257	4,257	4,257	4,257	4,257	4,257	4,257	4,257	4,257	
37	Transportation equipment.....	40,429	40,162	39,785	39,785	39,785	38,150	38,137	37,869	37,869	37,869	37,869	37,869	37,869	37,869	37,869	
371	Transportation equipment.....	8,390	8,488	8,488	8,488	8,488	8,673	8,426	8,608	8,608	8,608	8,608	8,608	8,608	8,608	8,608	
371, 6	Aircraft, missiles, and parts	8,812	8,842	8,842	8,842	8,842	8,842	8,842	8,842	8,842	8,842	8,842	8,842	8,842	8,842	8,842	
371	Ships, boats, and marine equipment	27,766	27,766	27,766	27,766	27,766	27,766	27,766	27,766	27,766	27,766	27,766	27,766	27,766	27,766	27,766	
371	Motor vehicles and parts	1,881	1,881	1,881	1,881	1,881	1,881	1,881	1,881	1,881	1,881	1,881	1,881	1,881	1,881	1,881	
371	Ships, boats, and marine equipment	1,657	1,657	1,657	1,657	1,657	1,657	1,657	1,657	1,657	1,657	1,657	1,657	1,657	1,657	1,657	
38	Instruments and related	9,007	9,398	9,487	9,398	9,398	9,487	9,398	9,398	9,398	9,398	9,398	9,398	9,398	9,398	9,398	
381-4	Scientific and engineering.....	6,684	6,684	6,684	6,684	6,684	6,684	6,684	6,684	6,684	6,684	6,684	6,684	6,684	6,684	6,684	
386	Photographic goods.....	2,317	2,289	2,288	2,288	2,288	2,405	2,537	2,508	2,508	2,508	2,508	2,508	2,508	2,508	2,508	
25	All other durable goods	14,036	14,202	14,177	14,272	14,404	14,814	15,141	14,824	14,824	14,824	14,824	14,824	14,824	14,824	14,824	
39	Industries.....																
20	Nondurable goods industries	19,968	19,972	20,212	19,830	20,405	21,240	21,296	21,092	21,092	21,092	21,092	21,092	21,092	21,092	21,092	
201	Food products.....	1,797	1,769	1,768	1,822	1,822	1,822	1,822	1,822	1,822	1,822	1,822	1,822	1,822	1,822	1,822	
201	Meat products.....	1,151	1,151	1,151	1,151	1,151	1,151	1,151	1,151	1,151	1,151	1,151	1,151	1,151	1,151	1,151	
201	Beverages.....	1,151	1,151	1,151	1,151	1,151	1,151	1,151	1,151	1,151	1,151	1,151	1,151	1,151	1,151	1,151	
201-6	All other foods.....	12,069	11,862	11,862	11,862	11,862	11,862	11,862	11,862	11,862	11,862	11,862	11,862	11,862	11,862	11,862	
21	Tobacco products.....	4,417	4,492	4,492	4,492	4,492	4,492	4,492	4,492	4,492	4,492	4,492	4,492	4,492	4,492	4,492	
22	Textile mill products.....	6,679	6,681	6,681	6,681	6,681	6,681	6,681	6,681	6,681	6,681	6,681	6,681	6,681	6,681	6,681	
22	Textile mill products.....	6,679	6,681	6,681	6,681	6,681	6,681	6,681	6,681	6,681	6,681	6,681	6,681	6,681	6,681	6,681	
260-1	Ship and boat building.....	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	
260-3	Ship and boat building.....	2,134	2,295	2,295	2,295	2,295	2,295	2,295	2,295	2,295	2,295	2,295	2,295	2,295	2,295	2,295	
260-3	Paperboard containers.....	2,879	2,898	2,898	2,898	2,898	2,898	2,898	2,898	2,898	2,898	2,898	2,898	2,898	2,898	2,898	
264	All other paper containers.....	20,315	20,272	20,656	20,973	21,428	21,615	21,615	21,615	21,615	21,615	21,615	21,615	21,615	21,615	21,615	
28	Chemicals and allied products.....	6,230	6,293	6,293	6,293	6,293	6,293	6,293	6,293	6,293	6,293	6,293	6,293	6,293	6,293	6,293	
281, 6	Chemicals, except pigments.....	6,230	6,293	6,293	6,293	6,293	6,293	6,293	6,293	6,293	6,293	6,293	6,293	6,293	6,293	6,293	
281, 6	Drugs, soap, and toiletries.....	6,299	6,287	6,289	6,421	6,420	6,420	6,420	6,420	6,420	6,420	6,420	6,420	6,420	6,420	6,420	
29	Petroleum and coal products.....	9,245	9,274	9,274	9,101	10,511	10,544	10,544	10,544	10,544	10,544	10,544	10,544	10,544	10,544	10,544	
30	Rubber and plastics products.....	5,816	5,791	5,888	6,046	6,151	6,208	6,434	6,396	6,396	6,396	6,396	6,396	6,396	6,396	6,396	
27	All other nondurable goods	1,978	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	1,773	
31	Industries.....																

Preliminary.

Footnote.

1. Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day variations.

2. The supplementary series are groupings of the separate industry categories as follows:

a. Household durable goods industries--household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances (radio and TV, phonographs, recorders, and clocks) and miscellaneous personal goods.

b. Consumer durables--comparable to the previous producers' capital goods and the defense products list series categories.

c. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

d. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

e. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

f. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

g. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

h. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

i. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

j. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

k. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

l. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

m. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

n. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

o. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

p. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

q. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

r. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

s. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

t. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

u. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

v. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

w. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

x. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

y. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

z. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

aa. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

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bi. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

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bn. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

bo. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

bp. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

bq. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

br. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

bs. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

bt. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

bu. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

bv. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

bw. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

bx. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

by. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

bz. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

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ck. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

cl. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

cm. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

cn. Consumer nondurables--comparable to the previous producers' capital goods and the defense products list series categories.

co. Consumer nondurables--comparable to the previous producers

TABLE 3. VALUE OF EXPORTING INDUSTRIES IN THE FIVE YEAR PERIOD 1955-1959

Industry	monthly					quarterly					yearly				
	1955-1959					1955-1959					1955-1959				
	1955	1956	1957	1958	1959	1955	1956	1957	1958	1959	1955	1956	1957	1958	1959
INDUSTRY															
1955-1959															
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Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent change							Revisions ²		
	Month-to-month			Average monthly rate of change ¹				Year ago Oct. 1981	Average monthly	
	Sept. 1982- Oct. 1982	Aug. 1982- Sept. 1982	July 1982- Aug. 1982	Third quarter 1982	Second quarter 1982	First quarter 1982	Nov. 1981 through Oct. 1982		Oct. 1981 through Sept. 1982	Oct. 1977-1981
Shipments:										
All manufacturing industries.....	-4.1	+0.4	-1.7	-1.8	+0.8	-0.4	-0.8	0.3	0.3	0.2
Durable goods industries.....	-5.4	-0.9	-2.3	-3.3	+0.3	-0.4	-1.3	0.5	0.4	0.3
Nondurable goods industries.....	-2.9	+1.7	-1.2	-0.3	+1.3	-0.5	-0.3	0.0	0.4	0.4
Inventories:										
All manufacturing industries.....	-0.1	-0.7	-0.2	-1.2	-0.6	-0.4	-0.3	0.1	0.1	0.1
New orders:										
All manufacturing industries.....	-3.9	+1.2	-2.7	-2.4	0.0	-0.1	-0.9	0.4	0.4	0.2
Durable goods industries.....	-4.7	+0.4	-4.5	-4.6	-1.4	+0.6	-1.6	0.7	0.7	0.5
Nondurable goods industries.....	-3.2	+1.8	-0.9	-0.2	+1.3	-0.4	-0.3	0.0	0.4	0.3
Unfilled orders:										
Durable goods industries.....	-0.9	-1.1	-1.4	-3.3	-1.0	-0.3	-0.9	0.1	0.1	0.1

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the difference between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months ² backlog)			
	October 1982	September 1982	August 1982	July 1982	October 1982	September 1982	August 1982	July 1982
All manufacturing industries.....	1.78	1.71	1.73	1.70	3.76	3.63	3.69	3.67
Durable goods industries.....	2.52	2.39	2.38	2.33	4.65	4.46	4.55	4.49
Stone, clay, and glass products.....	1.66	1.67	1.71	1.68	0.51	0.52	0.52	0.51
Primary metals.....	3.08	2.91	2.88	2.90	2.76	2.66	2.65	2.65
Fabricated metals.....	2.08	2.00	1.98	1.93	2.91	2.80	2.84	2.83
Machinery, except electrical.....	3.07	2.79	2.93	2.95	4.47	4.04	4.26	4.42
Electrical machinery.....	2.40	2.33	2.35	2.22	4.99	4.86	4.82	4.54
Transportation equipment.....	2.68	2.47	2.26	2.21	11.54	11.51	11.58	11.14
Instruments and related products.....	2.46	2.32	2.41	2.41	1.86	1.77	1.82	1.81
Nondurable goods industries.....	1.12	1.08	1.12	1.11	0.54	0.54	0.52	0.53
Food and kindred products.....	0.89	0.86	0.91	0.87	(X)	(X)	(X)	(X)
Tobacco products.....	3.66	2.97	3.78	4.79	(X)	(X)	(X)	(X)
Textile mill products.....	1.53	1.52	1.52	1.58	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.38	1.36	1.34	1.35	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.49	1.41	1.42	1.46	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.54	0.53	0.55	0.52	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.65	1.55	1.61	1.54	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. ^RRevised. (X) Not applicable.¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

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U.S. Department of Commerce
BUREAU OF THE CENSUS



Manufacturers' Shipments, Inventories, and Orders

NOVEMBER 1982

M3-1 (82)-11
FOR WIRE TRANSMISSION 2:30P.M. E.S.T. MONDAY, JANUARY 3, 1983

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in November increased \$1.1 billion or 0.7 percent from October to \$150.8 billion, the Department of Commerce, Bureau of the Census reported today. This increase followed a 4.1 percent decline in October. Shipments of manufactured goods were up slightly in November, increasing \$0.3 billion or 0.2 percent to \$152.8 billion. Both the new orders and shipments increases in November were attributable to the durable goods sector as activity in the nondurable goods sector showed no change from October. Manufacturers' shipments have now exceeded incoming orders for 16 consecutive months, resulting in a November orders backlog estimate of \$291.1 billion, 11.5 percent below the peak last July of \$328.9 billion.

The book value of manufacturers' inventories in November declined \$2.4 billion or 0.9 percent to \$269.3 billion. Manufacturers' inventories have declined for 11 of the last 12 months. The inventory to shipments ratio was 1.76 in November.

The increase in new orders in November was concentrated in the durable goods sector which was up \$1.0 billion or 1.4 percent from October to \$70.6 billion. New orders for electrical machinery were up \$0.9 billion or 8.2 percent to \$12.0 billion with the largest increase in orders for defense communication equipment. New orders for primary metals were up \$0.6 billion or 7.9 percent to \$7.5 billion. Although this is the largest 1-month increase since a 13.7 percent increase in July 1980, the level is 42 percent below the peak in January 1980 of \$13.0 billion. New orders for transportation equipment were up \$0.2 billion, or 1.5 percent to \$14.5 billion, following 3 consecutive monthly declines. All of the specific categories except motor vehicles and parts had increases. New orders for nonelectrical machinery were down \$0.8 billion or 6.1 percent to \$13.0 billion.

Within the capital goods industries, new orders for non-defense capital goods in November were unchanged at \$20.2 billion. New orders for defense capital goods increased 1.1 percent to \$4.9 billion.

Shipments by durable goods manufacturers increased \$0.3 billion or 0.5 percent to \$72.7 billion, with offsetting movements in some of the specific categories. The largest increase was in shipments of nonelectrical machinery which was up \$0.5 billion or 3.8 percent to \$14.6 billion. Shipments of primary metals declined \$0.3 billion or 4.4 percent to \$7.4 billion,

with the nonferrous category accounting for most of the decline. Shipments of transportation equipment were flat at \$15.1 billion, as a decline in the aircraft and parts category was offset by increases in the other component categories.

Shipments of nondurable goods in November at \$80.1 billion were unchanged from October. This resulted from offsetting movements in the specific industry categories. The largest increase was in shipments of chemicals, up \$0.5 billion or 3.9 percent to \$14.1 billion; the largest decrease was in petroleum products shipments which declined \$0.7 billion or 4.1 percent to \$16.6 billion.

The decline in the orders backlog of durable goods manufacturers in November was widespread. A decrease of \$0.7 billion or 0.6 percent in unfilled orders for transportation equipment reflected declines in all categories. The decline of \$0.7 billion or 0.6 percent in the machinery category resulted from a decline in the nonelectrical category that more than offset an increase in the electrical category. The backlog of orders for primary metals showed a small increase of \$0.1 billion or 0.7 percent, the first since July.

The backlog of orders for nondefense capital goods declined \$1.3 billion or 1.0 percent to \$124.7 billion, the seventh consecutive monthly decline. The backlog of orders for defense capital goods declined 0.1 percent to \$84.4 billion.

The book value of manufacturers' inventories at the end of November was valued at \$269.3 billion, down \$2.4 billion or 0.9 percent from October. Durable goods manufacturers accounted for the entire decline as their inventories were reported down \$2.4 billion or 1.3 percent to \$179.5 billion. Virtually all durable goods categories decreased. Inventories of nondurable goods manufacturers, estimated at \$89.9 billion, showed little change from October.

Inventories by stage of fabrication showed declines in November. Raw material inventories decreased 0.6 percent, work in process inventories decreased 0.9 percent, and finished goods inventories 1.2 percent. Since total inventories peaked in November 1981, at \$285.8 billion, the rate of decline in finished goods inventories has been slower than for raw materials and work in process inventories.

The advance report on durable goods for December is scheduled for release on January 21, 1983, and full report is scheduled for release on February 1, 1983.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, \$1.50 per copy, \$18.00 per year.

TABLE 1. CURRENT ANNUAL DIFFERENTIALS OF INDUSTRIES, SECTORS, MAJOR ACTIVITIES, AND SUBINDUSTRIES, 1962-1967

SIC	Industry	Seasonally adjusted					Year-to-year percentage change										Annual percentage change
		Seasonally adjusted					Seasonally adjusted					Seasonally adjusted					
		Seasonally adjusted					Seasonally adjusted					Seasonally adjusted					
		1962	1963	1964	1965	1966	1962	1963	1964	1965	1966	1962	1963	1964	1965	1966	
TOTALS																	
10-200	All manufacturing industries.....	10,777	10,671	10,626	10,615	10,615	10,615	10,615	10,615	10,615	10,615	10,615	10,615	10,615	10,615	10,615	10,615
10-200	Manufacturing industries with one building transportation.....	10,762	10,656	10,610	10,600	10,600	10,600	10,600	10,600	10,600	10,600	10,600	10,600	10,600	10,600	10,600	10,600
20-300	Manufacturing industries with unutilized orders.....	78,100	77,671	77,600	77,590	77,590	77,590	77,590	77,590	77,590	77,590	77,590	77,590	77,590	77,590	77,590	77,590
20-300	Durable goods industries.....	72,000	71,560	71,500	71,490	71,490	71,490	71,490	71,490	71,490	71,490	71,490	71,490	71,490	71,490	71,490	71,490
20-300	Durable goods with unutilized orders.....	69,062	68,622	68,560	68,550	68,550	68,550	68,550	68,550	68,550	68,550	68,550	68,550	68,550	68,550	68,550	68,550
30-400	Nondurable goods industries.....	80,100	80,111	80,111	80,111	80,111	80,111	80,111	80,111	80,111	80,111	80,111	80,111	80,111	80,111	80,111	80,111
30-400	Nondurable goods with unutilized orders.....	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
MARKET CATEGORIES																	
10-200	Home goods and apparel.....	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700	1,700
10-200	Consumer staples.....	29,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000	29,000
10-200	Equipment and defense products, except automotive.....	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000	23,000
10-200	Automotive equipment.....	9,100	9,100	9,100	9,100	9,100	9,100	9,100	9,100	9,100	9,100	9,100	9,100	9,100	9,100	9,100	9,100
10-200	Transportation equipment, utilities, and intermediate products.....	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400
10-200	Other materials, supplies, and intermediate products.....	6,800	6,800	6,800	6,800	6,800	6,800	6,800	6,800	6,800	6,800	6,800	6,800	6,800	6,800	6,800	6,800
SUPPLEMENTARY SECTORS																	
10-200	Household durable goods industries.....	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600
10-200	Capital goods industries.....	21,000	21,000	21,000	21,000	21,000	21,000	21,000	21,000	21,000	21,000	21,000	21,000	21,000	21,000	21,000	21,000
10-200	Defense.....	4,400	4,400	4,400	4,400	4,400	4,400	4,400	4,400	4,400	4,400	4,400	4,400	4,400	4,400	4,400	4,400
INDUSTRIAL GROUPS AND INDUSTRIES																	
10-200	Durable goods industries.....	1,720	1,720	1,720	1,720	1,720	1,720	1,720	1,720	1,720	1,720	1,720	1,720	1,720	1,720	1,720	1,720
10-200	Stainless steel and glass products.....	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600
10-200	Glass containers.....	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600	4,600
10-200	Primary metals.....	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
10-200	Nonferrous metals.....	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
10-200	Nonferrous and other primary metals.....	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
10-200	Fabricated metal products.....	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000
10-200	Metal cans, barrels, and metal containers.....	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900
10-200	Machinery, except electrical.....	16,900	16,900	16,900	16,900	16,900	16,900	16,900	16,900	16,900	16,900	16,900	16,900	16,900	16,900	16,900	16,900
10-200	Engines and turbines.....	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
10-200	Iron machinery and equipment.....	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
10-200	Construction, mining, and other heavy equipment.....	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600	2,600
10-200	Working machinery.....	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700
10-200	General industrial machinery.....	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURES' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

SIC	Industry	(Millions of dollars)												
		Seasonally adjusted					Not seasonally adjusted ¹							
		Monthly		Quarterly		Last 4 months			Last 4 months a year ago		Annual			
Nov. 1982 ²	Oct. 1982 ²	Sept. 1982	Aug. 1982	III 1982	II 1982	I 1982	Nov. 1981	Oct. 1981	Sept. 1981	Aug. 1981	1981	1981		
INDUSTRY GROUPS AND INDUSTRIES--Continued														
Durable goods and industries--Continued														
36	Electrical machinery.....	11,106	11,220	11,452	11,424	34,394	35,238	34,170	11,220	11,708	12,076	11,131	11,988	12,197
361,2	Electrical transmission and distribution equipment and household appliances.....	1,865	1,556	1,733	1,671	5,135	5,222	5,307	1,574	1,575	1,782	1,611	1,859	1,947
363	Baths and T.V.s.....	3,065	3,553	3,637	3,607	11,488	11,988	12,095	3,603	3,693	3,743	3,612	3,764	3,883
369	Communication equipment.....	2,460	2,288	2,288	2,288	7,067	7,067	7,067	2,465	2,391	2,893	2,391	2,665	3,376
37	Transportation equipment.....	15,135	15,053	16,292	17,589	51,687	50,832	46,804	16,184	16,825	17,203	17,203	17,203	17,203
371	Motor vehicles and parts.....	8,085	7,923	9,568	11,018	31,506	30,038	26,427	8,538	9,223	9,799	8,483	8,460	9,799
372,6	Aircraft, missiles, and spacecraft.....	5,330	5,378	5,307	5,201	15,814	16,183	15,246	5,395	5,399	5,388	4,922	5,391	5,388
3731	Spacecraft and military spacecraft.....	964	832	951	853	2,733	2,823	2,839	921	871	969	829	931	983
3735	Missiles.....	3,759	3,753	4,043	3,894	11,842	11,820	11,438	3,895	4,316	4,316	3,873	4,125	4,291
38	Instruments and related products.....	2,186	2,186	2,246	2,320	7,102	6,868	6,972	2,359	2,359	2,359	2,359	2,359	2,359
381-4	Scientific and engineering instruments.....	1,358	1,384	1,352	1,371	4,440	4,440	4,440	1,467	1,467	1,467	1,467	1,467	1,467
25	All other durable goods industries.....	7,996	7,942	7,801	7,691	23,660	23,449	21,472	7,920	8,666	8,553	8,175	7,788	8,670
20	Nondurable goods industries	22,524	22,392	23,268	22,275	68,820	68,815	67,182	23,207	24,238	24,238	22,335	22,311	23,483
201	Food and kindred products.....	5,918	5,918	5,918	5,918	18,453	18,453	17,285	5,918	5,918	5,918	5,918	5,918	5,918
208	Beverages.....	1,115	1,237	1,237	1,319	4,011	4,011	4,011	1,115	1,237	1,237	1,237	1,115	1,237
209	Fats and oils.....	1,081	1,207	1,207	1,207	3,775	3,775	3,775	1,081	1,207	1,207	1,207	1,081	1,207
21-6,9	All other foods.....	3,986	4,084	4,195	4,198	12,627	12,627	12,627	3,986	4,084	4,084	4,084	3,986	4,084
22	Textile mill products.....	5,529	5,519	5,492	5,549	19,319	19,243	19,319	5,529	5,519	5,519	5,519	5,529	5,519
26	Paper and allied products.....	2,709	2,644	2,740	2,679	8,069	7,988	8,069	2,709	2,644	2,644	2,644	2,709	2,644
261-3	Pulp, paper, etc.....	2,286	2,364	2,364	2,364	7,772	7,772	7,772	2,286	2,364	2,364	2,364	2,286	2,364
28	Chemical and allied products.....	16,074	13,548	14,397	14,331	43,307	42,482	41,536	13,548	13,144	14,864	13,977	13,460	13,977
281,6	Industrial chemicals, ex-	4,327	4,339	4,345	4,258	13,720	13,589	13,801	4,327	4,339	4,339	4,339	4,327	4,339
283,4	Drugs, soap, and toiletries.....	17,352	17,352	17,431	17,376	29,587	28,893	27,735	17,352	17,352	17,352	17,352	17,352	17,352
285	Plastics, synthetic.....	3,414	3,483	3,554	3,554	11,051	10,881	10,980	3,414	3,483	3,483	3,483	3,414	3,483
30	Rubber and plastic products.....	11,834	11,546	11,768	11,989	37,497	36,209	35,278	11,834	12,072	12,072	11,834	11,834	12,072
23	All other nondurable goods industries.....	22,524	22,392	23,268	22,275	68,820	68,815	67,182	23,207	24,238	24,238	22,335	22,311	23,483
21	Industries.....	22,524	22,392	23,268	22,275	68,820	68,815	67,182	23,207	24,238	24,238	22,335	22,311	23,483

¹ Preliminary.² Revised.

³ Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

⁴ The supplementary series are reorganizations of the separate industry categories as follows:

Household durable goods industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware, household appliances, radio and TV, optical aids, goods, watches, and clocks, and miscellanea.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense industries--Military, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the Statistics of the United States Department of Commerce, Bureau of Economic Analysis, and the Bureau of Economic Analysis.

TABLE 1. VALUE OF MANUFACTURES, NEW ORDERS AND INVENTORY ORDERS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	Seasonally adjusted												Not seasonally adjusted ¹												Annual				
		Monthly						Quarterly						Months												Year to date				
		1947-1948						1947-1948						1947-1948						1947-1948						1947-1948				
		Nov. 1947	Dec. 1947	Jan. 1948	Feb. 1948	Mar. 1948	Apr. 1948	May 1948	Jun. 1948	Jul. 1948	Aug. 1948	Sept. 1948	Oct. 1948	Nov. 1948	Dec. 1948	Jan. 1949	Feb. 1949	Mar. 1949	Apr. 1949	May 1949	Jun. 1949	Jul. 1949	Aug. 1949	Sept. 1949	Oct. 1949	Nov. 1949	Dec. 1949			
TOTALS																														
32	All manufacturing industries.....	149,606	150,106	150,180	149,116	149,860	147,782	147,007	147,100	147,107	147,107	147,100	147,107	147,107	147,107	147,107	147,107	147,107	147,107	147,107	147,107	147,107	147,107	147,107	147,107	147,107	147,107	1,799,345	1,818,753	
33	Manufacturing industries excluding transportation.....	119,680	119,624	119,596	119,206	119,694	118,402	118,402	118,402	118,402	118,402	118,402	118,402	118,402	118,402	118,402	118,402	118,402	118,402	118,402	118,402	118,402	118,402	118,402	118,402	118,402	118,402	1,536,230	1,550,511	
333-5	Manufacturing industries with unfilled orders.....	76,144	76,020	75,997	75,721	75,729	75,439	75,439	75,439	75,439	75,439	75,439	75,439	75,439	75,439	75,439	75,439	75,439	75,439	75,439	75,439	75,439	75,439	75,439	75,439	75,439	75,439	901,425	903,573	
34	Durable goods industries.....	70,566	69,598	71,006	71,006	70,606	70,606	70,606	70,606	70,606	70,606	70,606	70,606	70,606	70,606	70,606	70,606	70,606	70,606	70,606	70,606	70,606	70,606	70,606	70,606	70,606	70,606	819,809	821,881	
35	Durable goods with unfilled orders.....	58,911	58,106	60,993	59,520	59,520	59,520	59,520	59,520	59,520	59,520	59,520	59,520	59,520	59,520	59,520	59,520	59,520	59,520	59,520	59,520	59,520	59,520	59,520	59,520	59,520	59,520	684,218	686,258	
36	Nondurable goods industries.....	80,148	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	869,936	871,836	
37	Nondurable goods with unfilled orders.....	17,311	16,822	17,311	17,311	17,311	17,311	17,311	17,311	17,311	17,311	17,311	17,311	17,311	17,311	17,311	17,311	17,311	17,311	17,311	17,311	17,311	17,311	17,311	17,311	17,311	17,311	187,609	188,444	
38	Industries without unfilled orders.....	64,667	64,676	64,686	64,686	64,686	64,686	64,686	64,686	64,686	64,686	64,686	64,686	64,686	64,686	64,686	64,686	64,686	64,686	64,686	64,686	64,686	64,686	64,686	64,686	64,686	64,686	702,266	703,387	
MARKET CATEGORIES																														
32	House goods and apparel.....	10,764	10,777	10,798	10,798	10,798	10,798	10,798	10,798	10,798	10,798	10,798	10,798	10,798	10,798	10,798	10,798	10,798	10,798	10,798	10,798	10,798	10,798	10,798	10,798	10,798	10,798	127,607	127,617	
33	Consumer staples.....	30,149	29,467	31,569	30,181	30,181	30,181	30,181	30,181	30,181	30,181	30,181	30,181	30,181	30,181	30,181	30,181	30,181	30,181	30,181	30,181	30,181	30,181	30,181	30,181	30,181	30,181	302,136	302,136	
34	Equipment and defense products.....	22,668	22,425	21,430	21,430	21,430	21,430	21,430	21,430	21,430	21,430	21,430	21,430	21,430	21,430	21,430	21,430	21,430	21,430	21,430	21,430	21,430	21,430	21,430	21,430	21,430	21,430	258,924	261,989	
35	Automotive equipment.....	9,486	9,466	11,567	11,567	11,567	11,567	11,567	11,567	11,567	11,567	11,567	11,567	11,567	11,567	11,567	11,567	11,567	11,567	11,567	11,567	11,567	11,567	11,567	11,567	11,567	11,567	117,421	126,155	
36	Construction materials, supplies, and intermediate products.....	11,075	11,205	11,691	11,691	11,691	11,691	11,691	11,691	11,691	11,691	11,691	11,691	11,691	11,691	11,691	11,691	11,691	11,691	11,691	11,691	11,691	11,691	11,691	11,691	11,691	11,691	126,400	141,730	
37	Other materials, supplies, and intermediate products.....	99,503	99,081	98,531	98,531	98,531	98,531	98,531	98,531	98,531	98,531	98,531	98,531	98,531	98,531	98,531	98,531	98,531	98,531	98,531	98,531	98,531	98,531	98,531	98,531	98,531	98,531	753,172	800,573	
SUPPLEMENTARY SERIES ²																														
32	Household durable goods industries.....	6,718	6,743	6,850	6,870	6,870	6,870	6,870	6,870	6,870	6,870	6,870	6,870	6,870	6,870	6,870	6,870	6,870	6,870	6,870	6,870	6,870	6,870	6,870	6,870	6,870	6,870	53,625	56,929	
33	Capital goods industries.....	25,090	24,608	24,608	24,608	24,608	24,608	24,608	24,608	24,608	24,608	24,608	24,608	24,608	24,608	24,608	24,608	24,608	24,608	24,608	24,608	24,608	24,608	24,608	24,608	24,608	24,608	287,787	317,862	
34	Nondefense.....	20,214	20,183	20,273	19,893	19,893	19,893	19,893	19,893	19,893	19,893	19,893	19,893	19,893	19,893	19,893	19,893	19,893	19,893	19,893	19,893	19,893	19,893	19,893	19,893	19,893	19,893	227,008	265,690	
35	Defense.....	4,876	4,821	4,335	5,314	5,314	5,314	5,314	5,314	5,314	5,314	5,314	5,314	5,314	5,314	5,314	5,314	5,314	5,314	5,314	5,314	5,314	5,314	5,314	5,314	5,314	5,314	60,775	51,131	
INDUSTRY GROUPS AND INDUSTRIES																														
32	Durable goods industries:																													
33	Stone, clay, and glass.....	3,737	3,676	3,852	3,707	3,707	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	3,693	41,538	45,569	
34	Primary metals.....	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	3,793	89,093	124,093	
35	Nonferrous and other primary metal products.....	3,080	2,795	3,153	3,169	3,169	3,169	3,169	3,169	3,169	3,169	3,169	3,169	3,169	3,169	3,169	3,169	3,169	3,169	3,169	3,169	3,169	3,169	3,169	3,169	3,169	3,169	39,418	63,099	
36	Fabricated metal products.....	3,748	3,534	4,010	3,765	3,765	3,765	3,765	3,765	3,765	3,765	3,765	3,765	3,765	3,765	3,765	3,765	3,765	3,765	3,765	3,765	3,765	3,765	3,765	3,765	3,765	3,765	41,452	47,764	
37	Machinery, except electrical.....	8,118	8,297	8,668	8,897	8,897	8,897	8,897	8,897	8,897	8,897	8,897	8,897	8,897	8,897	8,897	8,897	8,897	8,897	8,897	8,897	8,897	8,897	8,897	8,897	8,897	8,897	93,481	133,389	
38	Electrical, electronic, and communication equipment.....	12,561	13,141	13,928	13,928	13,928	13,928	13,928	13,928	13,928	13,928	13,928	13,928	13,928	13,928	13,928	13,928	13,928	13,928	13,928	13,928	13,928	13,928	13,928	13,928	13,928	13,928	13,928	153,581	185,581
39	Transportation.....	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	11,986	151,002	161,102
34	Material-handling equipment.....	2,422	2,009	2,540	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	26,041	36,816	
35	Metallurgical machinery.....	597	601	588	736	736	736	736	736	736	736	736	736	736	736	736	736	736	736	736	736	736	736	736	736	736	736	736	800	1,033
36	General industrial machinery.....	1,037	1,042	1,137	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,032	12,621	16,324

See footnotes at end of table.

TABLE 3. VALUE OF MANUFACTURED EXPORTED GOODS BY INDUSTRY GROUPS, EXPORT CATEGORIES, AND SUPPLEMENTARY EFFECTS

SIC	Industry	Seasonally adjusted										Not seasonally adjusted ¹									
		MONTHLY					QUARTERS					MONTHLY					MONTHLY				
		Nov. 1962 ²	Jan. 1963	Mar. 1963	May 1963	July 1963	Sept. 1963	Nov. 1963	Jan. 1964	Mar. 1964	May 1964	June 1964	Aug. 1964	Oct. 1964	Dec. 1964	Feb. 1965	April 1965	June 1965	Aug. 1965	Oct. 1965	Dec. 1965
TOTALS																					
	All manufacturing industries.....	291,091	287,000	287,000	287,000	287,000	287,000	287,000	287,000	287,000	287,000	287,000	287,000	287,000	287,000	287,000	287,000	287,000	287,000	287,000	287,000
	Manufacturing industries.....	179,117	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500
	Excluding transportation.....	179,117	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500	180,500
	Durable goods industries.....	281,859	281,859	281,859	281,859	281,859	281,859	281,859	281,859	281,859	281,859	281,859	281,859	281,859	281,859	281,859	281,859	281,859	281,859	281,859	281,859
	Nondurable goods industries.....	9,231	9,231	9,231	9,231	9,231	9,231	9,231	9,231	9,231	9,231	9,231	9,231	9,231	9,231	9,231	9,231	9,231	9,231	9,231	9,231
MARKET CATEGORIES																					
	Home goods and apparel.....	3,466	3,466	3,466	3,466	3,466	3,466	3,466	3,466	3,466	3,466	3,466	3,466	3,466	3,466	3,466	3,466	3,466	3,466	3,466	3,466
	Consumer staples.....	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860
	Automotive equipment.....	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860	177,860
	Construction materials, supplies, and intermediate products.....	11,763	11,763	11,763	11,763	11,763	11,763	11,763	11,763	11,763	11,763	11,763	11,763	11,763	11,763	11,763	11,763	11,763	11,763	11,763	11,763
	Intermediate products.....	96,006	96,006	96,006	96,006	96,006	96,006	96,006	96,006	96,006	96,006	96,006	96,006	96,006	96,006	96,006	96,006	96,006	96,006	96,006	96,006
SUPPLEMENTARY EFFECTS																					
	Household durable goods value- less.....	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498	2,498
	Capital goods industries.....	204,096	204,096	204,096	204,096	204,096	204,096	204,096	204,096	204,096	204,096	204,096	204,096	204,096	204,096	204,096	204,096	204,096	204,096	204,096	204,096
	Nondefense.....	124,696	124,696	124,696	124,696	124,696	124,696	124,696	124,696	124,696	124,696	124,696	124,696	124,696	124,696	124,696	124,696	124,696	124,696	124,696	124,696
	Defense.....	84,400	84,400	84,400	84,400	84,400	84,400	84,400	84,400	84,400	84,400	84,400	84,400	84,400	84,400	84,400	84,400	84,400	84,400	84,400	84,400
INDUSTRY GROUPS AND INDUSTRIES																					
	Durable goods industries.....	1,704	1,692	1,704	1,692	1,704	1,692	1,704	1,692	1,704	1,692	1,704	1,692	1,704	1,692	1,704	1,692	1,704	1,692	1,704	1,692
12	Stone, clay, and glasses.....	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
13	Textile millinery.....	12,862	12,862	12,862	12,862	12,862	12,862	12,862	12,862	12,862	12,862	12,862	12,862	12,862	12,862	12,862	12,862	12,862	12,862	12,862	12,862
331-4-9	Nonferrous and other primary metal products.....	6,259	6,106	6,259	6,106	6,259	6,106	6,259	6,106	6,259	6,106	6,259	6,106	6,259	6,106	6,259	6,106	6,259	6,106	6,259	6,106
34	Fabricated metal products.....	22,834	22,834	22,834	22,834	22,834	22,834	22,834	22,834	22,834	22,834	22,834	22,834	22,834	22,834	22,834	22,834	22,834	22,834	22,834	22,834
35	Chemical and allied products.....	18,049	18,049	18,049	18,049	18,049	18,049	18,049	18,049	18,049	18,049	18,049	18,049	18,049	18,049	18,049	18,049	18,049	18,049	18,049	18,049
351	Engines and turbines.....	15,261	15,261	15,261	15,261	15,261	15,261	15,261	15,261	15,261	15,261	15,261	15,261	15,261	15,261	15,261	15,261	15,261	15,261	15,261	15,261
352	Construction, mining, and material-handling equipment.....	5,848	5,902	5,848	5,902	5,848	5,902	5,848	5,902	5,848	5,902	5,848	5,902	5,848	5,902	5,848	5,902	5,848	5,902	5,848	5,902
354	Metalworking machinery.....	2,552	2,565	2,552	2,565	2,552	2,565	2,552	2,565	2,552	2,565	2,552	2,565	2,552	2,565	2,552	2,565	2,552	2,565	2,552	2,565
356	General industrial machinery.....	5,138	5,142	5,138	5,142	5,138	5,142	5,138	5,142	5,138	5,142	5,138	5,142	5,138	5,142	5,138	5,142	5,138	5,142	5,138	5,142

See footnotes at end of table.

TABLE 1. Industrial production index, 1961-1981, by industry

Industry	1961-1981									
	1961-1981					1961-1981				
	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
Index	1961=100									
	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
All manufacturing industries.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Food, drink, and tobacco.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Textiles and apparel.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Chemical and allied products.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Nonmetallic mineral products.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Metal industries.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Transportation.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Instruments, related, and miscellaneous.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Other manufacturing industries.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Construction.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Wholesale and retail trade.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Finance, insurance, and real estate.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Government.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Other services.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

See footnotes at end of table.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Billions of dollars)

SIC	Industry	Seasonally adjusted				Quarterly				Not seasonally adjusted							
		Monthly				Quarterly				Monthly							
		Nov. 1982 ^a	Oct. 1982 ^a	Sept. 1982	Aug. 1982	II 1982	I 1982	IV 1981	III 1981	II 1981	Nov. 1982 ^a	Oct. 1982 ^a	Sept. 1982	Aug. 1982	Nov. 1981	Oct. 1981	Sept. 1981
36	Electrical machinery.....	26,041	26,670	26,609	26,591	26,950	27,326	28,142	28,110	27,234	26,127	26,137	26,430	26,927	26,160	26,098	27,649
361.2	Radio and television equipment and electronic apparatus.....	4,302	4,193	4,221	4,004	4,176	4,674	4,506	4,710	4,462	4,146	4,184	4,186	4,258	4,731	4,737	4,666
363	Household appliances.....	1,789	1,810	1,831	1,837	1,886	1,895	2,004	2,050	1,951	1,667	1,726	1,732	1,811	2,000	2,333	2,006
365	Radio and TV.....	1,376	1,421	1,450	1,429	1,799	1,799	1,896	1,732	1,349	1,304	1,364	1,366	1,774	1,774	1,740	1,741
369	Communication equipment.....	5,227	5,591	5,509	5,577	5,545	5,680	5,823	5,823	5,710	5,518	5,515	5,492	5,527	5,860	5,849	5,765
37	Transportation equipment.....	39,997	40,418	40,162	39,485	38,156	38,237	38,603	37,686	37,686	40,417	40,062	39,745	39,431	39,411	38,244	37,943
371	Motor vehicles and parts.....	8,086	8,181	8,408	8,400	8,649	8,673	7,226	6,608	6,596	8,117	8,257	8,093	8,676	9,421	9,483	9,401
372.6	Aircraft, missiles, and parts.....	28,767	28,810	28,422	27,766	26,893	25,681	24,759	24,629	23,652	28,168	28,005	28,133	27,769	24,778	24,303	24,249
379	Shipbuilding and military equipment.....	1,367	1,469	1,481	1,910	1,672	1,909	2,141	2,244	2,255	1,417	1,399	1,512	1,613	1,436	2,009	2,128
38	Instruments and related products.....	9,301	9,388	9,398	9,187	9,393	9,199	9,610	9,528	9,472	9,094	9,122	9,125	9,397	9,308	9,178	9,434
381-4	Scientific and engineering.....	6,655	6,618	6,592	6,602	6,682	6,531	6,473	6,389	6,535	6,389	6,535	6,582	6,366	6,463	6,404	6,389
386	Photographic goods.....	5,169	5,267	5,280	5,252	5,268	5,405	5,157	5,068	5,405	5,194	5,194	5,262	5,126	5,195	5,410	5,451
39	All other durable goods industries.....	13,407	13,478	14,262	14,177	14,272	14,404	14,814	15,141	14,824	13,743	13,743	14,073	14,159	14,710	14,831	14,994
20	Nonferrous metals.....	19,933	19,911	19,972	20,312	20,405	20,400	21,260	21,260	21,260	21,117	21,027	21,140	21,356	22,212	22,164	20,866
201	Food and kindred products.....	1,786	1,780	1,769	1,748	1,830	1,934	1,711	1,860	1,999	1,663	1,716	1,716	1,714	1,821	1,781	1,794
208	Beverages.....	1,218	1,154	1,221	1,259	1,367	1,248	1,401	1,312	1,463	1,464	1,464	1,464	1,464	1,464	1,464	1,464
209	Textile mill products.....	11,826	11,961	11,862	12,051	11,433	11,778	11,884	12,499	12,644	12,713	12,713	12,713	12,713	12,713	12,713	12,713
21	All other foods.....	4,456	4,417	4,492	4,696	4,697	4,572	4,401	4,088	3,733	4,337	4,336	4,436	4,436	4,436	4,436	4,436
22	Textile mill products.....	6,346	6,350	6,369	6,381	6,367	6,387	7,011	7,008	6,949	6,762	6,762	6,762	6,762	6,762	6,762	6,762
26	Paper and allied products.....	3,493	3,493	3,493	3,493	3,493	3,493	3,493	3,493	3,493	3,493	3,493	3,493	3,493	3,493	3,493	3,493
263	Paper and allied products.....	2,317	2,355	2,295	2,282	2,291	2,312	2,392	2,392	2,392	2,392	2,392	2,392	2,392	2,392	2,392	2,392
264	Chemicals and allied products.....	2,917	2,887	2,898	2,968	2,899	3,070	2,972	2,961	2,881	2,948	2,948	2,948	2,948	2,948	2,948	2,948
281	Chemicals and allied products, except inorganic chemicals.....	19,962	20,396	20,272	20,656	20,973	21,426	21,615	21,314	20,917	19,913	19,913	19,913	19,913	19,913	19,913	19,913
283.4	Inorganic chemicals, except soda ash.....	6,013	6,250	6,293	6,126	6,346	6,763	6,962	6,876	6,866	6,966	6,966	6,966	6,966	6,966	6,966	6,966
283.4	Organic chemicals.....	9,644	9,201	9,274	9,329	9,100	10,531	10,344	10,816	11,423	9,412	9,412	9,412	9,412	9,412	9,412	9,412
29	Petroleum and coal products.....	5,725	5,803	5,676	5,741	6,046	6,153	6,298	6,434	6,408	5,498	5,498	5,498	5,498	5,498	5,498	5,498
33	All other nondurable goods industries.....	14,944	14,899	14,793	14,939	15,055	15,406	15,628	15,015	14,926	13,744	13,744	14,073	14,159	14,710	14,831	14,994

^a Preliminary.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders up inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are categorized by the separate industry categories as follows:

Household durable goods, nondurable household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, pet and livestock supplies, and miscellaneous personal goods.

Capital goods industries—comparable to the previous producers' capital goods and the defense products (excluding farm machinery and machine shops), electrical machinery, excluding household appliances, radio and TV, and electronic equipment, and the nondefense portions of shipbuilding and repairing.

Nonferrous metals—includes all nonferrous metals and alloys, except iron and steel, and the nondefense portions of shipbuilding and repairing.

Chemicals and allied products—includes all chemical products, except inorganic chemicals, and the nondefense portions of shipbuilding and repairing.

The data are comparable to those published annually in the M-37, Shipments of Defense-Related Industries, formerly Shipments of Defense-Related Industries, for the Special Industries.

1. *Chlorophyll a* (Chl *a*)
 2. *Chlorophyll b* (Chl *b*)
 3. *Chlorophyll c* (Chl *c*)
 4. *Chlorophyll d* (Chl *d*)
 5. *Chlorophyll e* (Chl *e*)
 6. *Chlorophyll f* (Chl *f*)
 7. *Chlorophyll g* (Chl *g*)
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 11. *Chlorophyll k* (Chl *k*)
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 15. *Chlorophyll o* (Chl *o*)
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 20. *Chlorophyll t* (Chl *t*)
 21. *Chlorophyll u* (Chl *u*)
 22. *Chlorophyll v* (Chl *v*)
 23. *Chlorophyll w* (Chl *w*)
 24. *Chlorophyll x* (Chl *x*)
 25. *Chlorophyll y* (Chl *y*)
 26. *Chlorophyll z* (Chl *z*)
 27. *Chlorophyll aa* (Chl *aa*)
 28. *Chlorophyll ab* (Chl *ab*)
 29. *Chlorophyll ac* (Chl *ac*)
 30. *Chlorophyll ad* (Chl *ad*)
 31. *Chlorophyll ae* (Chl *ae*)
 32. *Chlorophyll af* (Chl *af*)
 33. *Chlorophyll ag* (Chl *ag*)
 34. *Chlorophyll ah* (Chl *ah*)
 35. *Chlorophyll ai* (Chl *ai*)
 36. *Chlorophyll aj* (Chl *aj*)
 37. *Chlorophyll ak* (Chl *ak*)
 38. *Chlorophyll al* (Chl *al*)
 39. *Chlorophyll am* (Chl *am*)
 40. *Chlorophyll an* (Chl *an*)
 41. *Chlorophyll ao* (Chl *ao*)
 42. *Chlorophyll ap* (Chl *ap*)
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 44. *Chlorophyll ar* (Chl *ar*)
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 47. *Chlorophyll au* (Chl *au*)
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 52. *Chlorophyll az* (Chl *az*)
 53. *Chlorophyll aza* (Chl *aza*)
 54. *Chlorophyll abz* (Chl *abz*)
 55. *Chlorophyll acz* (Chl *acz*)
 56. *Chlorophyll adz* (Chl *adz*)
 57. *Chlorophyll aez* (Chl *aez*)
 58. *Chlorophyll afz* (Chl *afz*)
 59. *Chlorophyll agz* (Chl *agz*)
 60. *Chlorophyll ahz* (Chl *ahz*)
 61. *Chlorophyll aiz* (Chl *aiz*)
 62. *Chlorophyll ajz* (Chl *ajz*)
 63. *Chlorophyll akz* (Chl *akz*)
 64. *Chlorophyll alz* (Chl *alz*)
 65. *Chlorophyll amz* (Chl *amz*)
 66. *Chlorophyll anz* (Chl *anz*)
 67. *Chlorophyll aoz* (Chl *aoz*)
 68. *Chlorophyll apz* (Chl *apz*)
 69. *Chlorophyll aqz* (Chl *aqz*)
 70. *Chlorophyll arz* (Chl *arz*)
 71. *Chlorophyll asz* (Chl *asz*)
 72. *Chlorophyll atz* (Chl *atz*)
 73. *Chlorophyll auz* (Chl *auz*)
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 78. *Chlorophyll ayz* (Chl *ayz*)
 79. *Chlorophyll azz* (Chl *azz*)
 80. *Chlorophyll azaa* (Chl *aza*)
 81. *Chlorophyll abz* (Chl *abz*)
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 83. *Chlorophyll adz* (Chl *adz*)
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 95. *Chlorophyll apz* (Chl *apz*)
 96. *Chlorophyll aqz* (Chl *aqz*)
 97. *Chlorophyll arz* (Chl *arz*)
 98. *Chlorophyll asz* (Chl *asz*)
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 102. *Chlorophyll awz* (Chl *awz*)
 103. *Chlorophyll axz* (Chl *axz*)
 104. *Chlorophyll ayz* (Chl *ayz*)
 105. *Chlorophyll ayz* (Chl *ayz*)
 106. *Chlorophyll azz* (Chl *azz*)
 107. *Chlorophyll azaa* (Chl *aza*)
 108. *Chlorophyll abz* (Chl *abz*)
 109. *Chlorophyll acz* (Chl *acz*)
 110. *Chlorophyll adz* (Chl *adz*)
 111. *Chlorophyll aez* (Chl *aez*)
 112. *Chlorophyll afz* (Chl *afz*)
 113. *Chlorophyll agz* (Chl *agz*)
 114. *Chlorophyll ahz* (Chl *ahz*)
 115. *Chlorophyll aiz* (Chl *aiz*)
 116. *Chlorophyll ajz* (Chl *ajz*)
 117. *Chlorophyll akz* (Chl *akz*)
 118. *Chlorophyll alz* (Chl *alz*)
 119. *Chlorophyll amz* (Chl *amz*)
 120. *Chlorophyll anz* (Chl *anz*)
 121. *Chlorophyll aoz* (Chl *aoz*)
 122. *Chlorophyll apz* (Chl *apz*)
 123. *Chlorophyll aqz* (Chl *aqz*)
 124. *Chlorophyll arz* (Chl *arz*)
 125. *Chlorophyll asz* (Chl *asz*)
 126. *Chlorophyll atz* (Chl *atz*)
 127. *Chlorophyll auz* (Chl *auz*)
 128. *Chlorophyll avz* (Chl *avz*)
 129. *Chlorophyll awz* (Chl *awz*)
 130. *Chlorophyll axz* (Chl *axz*)
 131. *Chlorophyll ayz* (Chl *ayz*)
 132. *Chlorophyll ayz* (Chl *ayz*)
 133.

Revised.

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent change							Revisions ²		
	Month-to-month			Average monthly rate of change ¹				Year ago Nov. 1981	Average monthly	
	Oct. 1982- Nov. 1982	Sept. 1982- Oct. 1982	Aug. 1982- Sept. 1982	Third quarter 1982	Second quarter 1982	First quarter 1982	Dec. 1981 through Nov. 1982		Nov. 1981 through Oct. 1982	Nov. 1977-1981
Shipments:										
All manufacturing industries.....	+0..	-4.3	+0.4	-0.5	+0.8	-0.4	-0.5	0.1	0.3	0..
Durable goods industries.....	+0.5	-5.5	-0.9	-1.0	+0.3	-0.4	-0.8	0.5	0.3	0.2
Nondurable goods industries.....	0.0	-3.1	+1.7	0.0	+1.3	-0.5	-0.1	0.0	0.4	0.4
Inventories:										
All manufacturing industries.....	-0.9	-0.3	-0.7	-0.3	-0.6	-0.4	-0.5	0.1	0.1	0.1
New orders:										
All manufacturing industries.....	+0.7	-4.1	+1.2	-0.2	0.0	+0.1	-0.5	0..	0.3	1..
Durable goods industries.....	+1.5	-5.0	+0.4	-0.6	-1.4	+0.6	-0.9	0.7	0.7	0.5
Nondurable goods industries.....	+0.1	-3.4	+1.8	+0.2	+1.3	-0.4	-0.1	0.0	0..	0.3
Unfilled orders:										
Durable goods industries.....	-0.7	-1.0	-1.1	-1.2	-1.0	-0.3	-0.8	0.1	0.1	0.1

- Represents zero.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories---shipments ratio				Unfilled orders---shipments ratio ¹ (months' backlog)			
	November 1982	October 1982	September 1982	August 1982	November 1982	October 1982	September 1982	August 1982
All manufacturing industries.....	1.76	1.78	1.71	1.73	3.72	3.77	3.61	3.69
Durable goods industries.....	2.47	2.51	2.39	2.38	4.62	4.66	4.46	4.55
Stone, clay, and glass products.....	1.71	1.72	1.67	1.71	0.52	0.52	0.52	0.52
Primary metals.....	3.15	3.09	2.91	2.88	2.90	2.75	2.66	2.65
Fabricated metals.....	2.02	2.09	2.00	1.98	2.82	2.93	2.80	2.84
Machinery, except electrical.....	2.87	3.03	2.79	2.93	4.18	4.46	4.04	4.26
Electrical machinery.....	2.40	2.38	2.33	2.35	5.08	4.95	4.86	4.82
Transportation equipment.....	2.64	2.69	2.67	2.26	11.53	11.58	11.51	11.58
Instruments and related products.....	2.47	2.50	2.32	2.41	1.89	1.89	1.77	1.82
Nondurable goods industries.....	1.12	1.12	1.08	1.12	0.54	0.54	0.54	0.52
Food and kindred products.....	0.88	0.89	0.86	0.91	(X)	(X)	(X)	(X)
Tobacco products.....	4.12	3.66	2.97	3.78	(X)	(X)	(X)	(X)
Textile mill products.....	1.59	1.55	1.52	1.52	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.36	1.36	1.36	1.36	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.42	1.51	1.41	1.42	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.59	0.53	0.53	0.55	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.68	1.67	1.55	1.61	(X)	(X)	(X)	(X)

(NA) Not available.

^PPreliminary.^RRevised.

(X) Not applicable.

¹Includes the following industries with no unfilled orders: Wood and lumber products, glass containers, metal can, barrels, and drums, tape machinery and equipment, motor vehicle assembly operation, other transportation equipment, foods and related products, tobacco, apparel and related products, building paper, die-cut paper and board, chemicals, petroleum and coal products, and rubber and plastic products, n.e.c.

U.S. Department of Commerce
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Washington, D.C. 20233

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3-1(82)-12



Manufacturers' Shipments, Inventories, and Orders

DECEMBER 1982

U.S. Department of Commerce
BUREAU OF THE CENSUS

M-31 (82)-12
FOR WIRE TRANSMISSION 2:00 P.M. E.S.T. TUESDAY, FEBRUARY 1, 1983

(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in December increased \$7.3 billion or 4.8 percent to \$157.6 billion the Department of Commerce, Bureau of the Census reported today. This increase was due to large orders in the defense capital goods sector. Excluding that category, December new orders were down slightly from November by 0.1 percent. New orders for manufactured goods for all of 1982 totaled \$1,863.4 billion, 6.4 percent below 1981. Excluding defense orders, new orders for manufactured goods for the year totaled \$1,789.4 billion, 7.4 percent below 1981.

Shipments of manufactured goods in December declined \$0.9 billion or 0.6 percent from November to \$151.4 billion. This is the third consecutive monthly decline and the eighth for the year. Manufacturers' shipments for all of 1982 totaled \$1,884.7 billion, down 5.5 percent from 1981. The value of the orders backlog held by manufacturers increased in December \$6.2 billion or 2.1 percent to \$297.3 billion. This is the first monthly increase in the series since July 1981 when the backlog was \$328.9 billion. The December increase was due to the increase in defense orders. Excluding the defense orders backlog, unfilled orders in December declined 0.6 percent from November and 16.1 percent from December 1981.

The book value of manufacturers' inventories decreased in December \$2.6 billion or 1.0 percent to \$266.7 billion. Except for a 0.2 percent increase last February, inventories have been declining since November 1981 when they were valued 7.2 percent higher at \$285.8 billion. The inventory to shipments ratio for December was 1.76, and for November 1.77. The ratio for December 1981 was 1.77.

The surge in new orders in December, caused by an increase in orders for defense capital goods, mostly affected the transportation equipment industry. There orders increased \$7.0 billion or 48 percent to \$21.5 billion; in addition to the increase in defense orders for aircraft, aircraft parts and shipbuilding,

the motor vehicle and parts industry also increased this month. New orders for nonelectrical machinery were up in December \$1.1 billion or 8.8 percent to \$14.1 billion, due to an increase in the office and computing machine category. Orders for electrical machinery were up \$0.5 billion or 4.0 percent to \$12.7 billion due to an increase in the defense communication equipment category. New orders in the primary metals industry declined in December, as steel orders dropped \$0.5 billion or 17.6 percent to \$2.5 billion, following a 9.3 percent increase last month.

Shipments within the major industry groups in December, in both the durable and nondurable goods sectors, showed a mixed pattern of change. Primary metals and transportation equipment showed the largest increases while nonelectrical machinery, food products, and petroleum products showed the biggest declines. For the year, durable goods shipments were estimated at \$917.8 billion, down 8.3 percent from 1981, while nondurable goods shipments were estimated at \$966.9 billion; down 2.7 percent from 1981.

The increase in the value of manufacturers' unfilled orders in December of 2.1 percent was due mostly to the increase in the orders backlog for defense capital goods of \$7.4 billion or 8.7 percent to \$92.0 billion. Unfilled orders for nondefense capital goods declined \$0.6 billion or 0.5 percent to \$124.1 billion. The nondefense backlog has been declining generally since its peak in January 1981 when the value was 27 percent higher at \$157.0 billion.

The decline in the book value of inventories in December was widespread through the industries and affected all stages of fabrication: raw materials were down 0.9 percent, work in process was down 0.7 percent, and finished goods were down 1.3 percent.

The advance report on durable goods for January is scheduled for release on February 23, 1983, and full report is scheduled for release on March 3, 1983.

The estimates for December are generally subject to greater revisions than other months. Revisions are attributable to corrections to early estimates by companies and to the lower than normal response rates, as reporting is delayed by year end closing of records. For example, based on data from January 1977 through December 1981, the average monthly revision to durable goods new orders was 1.1 percent; for January through November the rate was 1.0 percent, while the average December change was 1.7 percent.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

For sale by Customer Services (DUSD) Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price, \$1.50 per copy, \$18.00 per year.

Table 1. VALUE OF MANUFACTURES, SHIPMENTS AND INDUSTRIES GOODS, QUARTER CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	Seasonally adjusted										Not seasonally adjusted										Total	
		Monthly					Quarterly					Monthly					Quarterly					1981	1982
		1967					1967					1967					1967						
		Nov. '67	Dec. '67	Jan. '68	Feb. '68	Mar. '68	IV, 1967	III, 1967	II, 1967	I, 1967	Dec. '67	Nov. '67	Dec. '67	Jan. '68	Feb. '68	Mar. '68	IV, 1967	III, 1967	II, 1967	I, 1967	Dec. '67		
TOTALS																							
	All manufacturing industries.....	131,441	136,344	137,453	138,426	139,443	539,443	529,443	529,443	529,443	140,443	141,443	142,443	143,443	144,443	145,443	146,443	147,443	148,443	149,443	150,443	1,450,443	1,450,443
	Manufacturing industries.....	133,455	138,359	139,470	140,443	141,455	541,455	531,455	531,455	531,455	142,455	143,455	144,455	145,455	146,455	147,455	148,455	149,455	150,455	151,455	152,455	1,451,455	1,451,455
	Manufacturing industries with unfilled orders.....	79,460	84,464	85,475	86,448	87,461	347,461	337,461	337,461	337,461	88,461	89,461	90,461	91,461	92,461	93,461	94,461	95,461	96,461	97,461	98,461	1,452,461	1,452,461
	Durable goods industries.....	2,469	2,469	2,469	2,469	2,469	9,469	9,469	9,469	9,469	2,469	2,469	2,469	2,469	2,469	2,469	2,469	2,469	2,469	2,469	2,469	2,469	2,469
	Durable goods with unfilled orders.....	61,469	61,477	61,485	61,493	61,501	247,493	247,493	247,493	247,493	61,493	61,493	61,493	61,493	61,493	61,493	61,493	61,493	61,493	61,493	61,493	61,493	61,493
	Nondurable goods industries.....	78,473	83,481	84,489	85,497	86,505	349,505	349,505	349,505	349,505	78,505	79,505	80,505	81,505	82,505	83,505	84,505	85,505	86,505	87,505	88,505	885,505	885,505
	Nondurable goods with unfilled orders.....	12,473	12,481	12,489	12,497	12,505	50,505	50,505	50,505	50,505	12,505	12,505	12,505	12,505	12,505	12,505	12,505	12,505	12,505	12,505	12,505	12,505	12,505
MATERIALS																							
	Flow goods and apparel.....	10,474	10,482	10,490	10,498	10,506	41,506	41,506	41,506	41,506	10,506	10,506	10,506	10,506	10,506	10,506	10,506	10,506	10,506	10,506	10,506	10,506	10,506
	Consumer staples.....	10,482	10,490	10,498	10,506	10,514	41,514	41,514	41,514	41,514	10,514	10,514	10,514	10,514	10,514	10,514	10,514	10,514	10,514	10,514	10,514	10,514	10,514
	Intermediate goods products.....	26,481	26,489	26,497	26,505	26,513	106,513	106,513	106,513	106,513	26,513	26,513	26,513	26,513	26,513	26,513	26,513	26,513	26,513	26,513	26,513	26,513	26,513
	Automotive.....	1,482	1,490	1,498	1,506	1,514	6,514	6,514	6,514	6,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514
	Automotive equipment.....	1,490	1,498	1,506	1,514	1,522	6,522	6,522	6,522	6,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522
	Construction materials, supplies, and intermediate products.....	11,498	11,506	11,514	11,522	11,530	46,530	46,530	46,530	46,530	11,530	11,530	11,530	11,530	11,530	11,530	11,530	11,530	11,530	11,530	11,530	11,530	11,530
	Other materials, supplies, and intermediate products.....	65,498	65,506	65,514	65,522	65,530	265,530	265,530	265,530	265,530	65,530	65,530	65,530	65,530	65,530	65,530	65,530	65,530	65,530	65,530	65,530	65,530	65,530
SUPPLEMENTARY SERIES																							
	Household durable goods index.....	4,481	4,489	4,497	4,505	4,513	18,513	18,513	18,513	18,513	4,513	4,513	4,513	4,513	4,513	4,513	4,513	4,513	4,513	4,513	4,513	4,513	4,513
	Capital goods industries.....	6,482	6,490	6,498	6,506	6,514	26,514	26,514	26,514	26,514	6,514	6,514	6,514	6,514	6,514	6,514	6,514	6,514	6,514	6,514	6,514	6,514	6,514
	Nondefense.....	1,482	1,490	1,498	1,506	1,514	6,514	6,514	6,514	6,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514
	Defense.....	5,100	5,108	5,116	5,124	5,132	20,532	20,532	20,532	20,532	5,132	5,132	5,132	5,132	5,132	5,132	5,132	5,132	5,132	5,132	5,132	5,132	5,132
INDUSTRY GROUPS AND INDUSTRIES																							
	Durable goods industries.....	3,709	3,717	3,725	3,733	3,741	15,741	15,741	15,741	15,741	3,741	3,741	3,741	3,741	3,741	3,741	3,741	3,741	3,741	3,741	3,741	3,741	3,741
	Stone, clay, and glass products.....	1,481	1,489	1,497	1,505	1,513	6,513	6,513	6,513	6,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513
	Glass containers.....	1,490	1,498	1,506	1,514	1,522	6,522	6,522	6,522	6,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522	1,522
	Primary metal industries.....	2,481	2,489	2,497	2,505	2,513	10,513	10,513	10,513	10,513	2,513	2,513	2,513	2,513	2,513	2,513	2,513	2,513	2,513	2,513	2,513	2,513	2,513
	Blas furnaces, steel rolls, and other primary metals.....	3,709	3,717	3,725	3,733	3,741	15,741	15,741	15,741	15,741	3,741	3,741	3,741	3,741	3,741	3,741	3,741	3,741	3,741	3,741	3,741	3,741	3,741
	Fabricated metal products.....	8,481	8,489	8,497	8,505	8,513	34,513	34,513	34,513	34,513	8,513	8,513	8,513	8,513	8,513	8,513	8,513	8,513	8,513	8,513	8,513	8,513	8,513
	Metal cans, barrels, and other metal products.....	8,490	8,498	8,506	8,514	8,522	34,522	34,522	34,522	34,522	8,522	8,522	8,522	8,522	8,522	8,522	8,522	8,522	8,522	8,522	8,522	8,522	8,522
	Machinery, except electrical.....	16,481	16,489	16,497	16,505	16,513	66,513	66,513	66,513	66,513	16,513	16,513	16,513	16,513	16,513	16,513	16,513	16,513	16,513	16,513	16,513	16,513	16,513
	Engines and turbines.....	1,482	1,490	1,498	1,506	1,514	6,514	6,514	6,514	6,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514	1,514
	Farm machinery and equipment.....	486	494	502	510	518	2,518	2,518	2,518	2,518	486	494	502	510	518	526	534	542	550	558	566	574	582
	Construction, mining, and other machinery and equipment.....	2,481	2,489	2,497	2,505	2,513	10,513	10,513	10,513	10,513	2,513	2,513	2,513	2,513	2,513	2,513	2,513	2,513	2,513	2,513	2,513	2,513	2,513
	Transportation machinery.....	1,481	1,489	1,497	1,505	1,513	6,513	6,513	6,513	6,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513
	General industrial machinery.....	1,493	1,501	1,509	1,517	1,525	6,525	6,525	6,525	6,525	1,525	1,525	1,525	1,525	1,525	1,525	1,525	1,525	1,525	1,525	1,525	1,525	1,525

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(billions of dollars)

SIC	Industry	Seasonally adjusted				Not seasonally adjusted ¹								Annual				
		Monthly				Quarterly				Yearly								
		Dec. 1982:p	Nov. 1987:p	Oct. 1982	Sept. 1982	IV 1987:p	III 1987	II 1982	Dec. 1982:p	Nov. 1987:p	Oct. 1982	Sept. 1982	Dec. 1982		Nov. 1984	Oct. 1984	Sept. 1984	
36	Electrical machinery.....	11,160	11,163	11,120	11,452	33,343	34,994	35,228	11,068	11,481	11,708	1,4076	11,125	11,715	11,688	11,437	137,780	137,866
361,2	Household appliances.....	1,638	1,578	1,556	1,733	4,772	5,135	5,222	1,569	1,567	1,575	1,782	1,742	1,835	1,839	1,942	20,441	20,576
363	Household appliances.....	1,066	1,063	1,070	1,070	3,161	3,230	3,105	939	1,010	1,111	1,111	994	1,013	1,113	1,111	12,519	13,422
365	Radio and television sets.....	3,369	3,368	3,353	3,437	1,650	1,938	1,405	4,861	4,963	4,963	4,821	4,861	4,861	4,861	4,861	48,919	49,000
367	Electronic components.....	2,646	2,650	2,648	2,648	7,419	7,333	7,445	2,295	2,299	2,299	2,258	2,315	2,251	2,324	2,324	28,990	28,358
37	Transportation equipment.....	15,306	15,088	15,053	16,287	47,707	51,687	50,832	14,933	15,528	16,183	16,835	15,645	16,794	17,219	19,491	200,496	200,496
371	Motor vehicles and parts.....	8,626	8,082	7,823	9,508	29,429	31,304	30,138	7,659	8,333	9,723	9,729	7,353	8,194	10,286	9,466	109,956	114,872
372,6	Aircraft, missiles, and parts.....	5,719	5,527	5,278	5,407	17,705	15,681	16,143	6,806	6,388	5,469	5,568	6,499	6,581	6,537	5,486	64,316	63,738
373	Space vehicles and parts.....	897	960	952	951	2,709	2,793	2,823	845	847	871	969	1,348	958	931	983	11,167	11,604
38	Instruments and related products.....	3,767	3,765	3,753	4,043	11,385	11,842	11,820	3,789	3,833	3,895	4,316	4,054	3,955	4,175	4,271	46,865	47,557
381-4	Scientific and engineering.....	2,307	2,170	2,137	2,406	6,615	7,102	6,580	2,460	2,469	2,587	2,587	2,464	2,469	2,575	2,587	26,507	27,307
385	Photographic goods.....	1,275	1,372	1,382	1,352	4,768	4,769	4,750	1,426	1,463	1,467	1,462	1,390	1,353	1,353	1,423	16,329	15,933
25	All other durable goods industries.....	7,739	8,035	7,892	7,693	23,706	23,660	23,649	7,044	7,450	8,646	8,553	7,130	7,288	8,749	8,870	99,585	99,585
20	Nondurable goods industries.....	21,402	22,320	22,497	22,468	66,723	68,635	68,635	22,138	22,800	23,407	24,298	22,111	22,980	23,513	23,513	221,363	221,363
201	Food products.....	5,832	5,906	5,907	5,832	17,820	18,626	18,626	5,900	6,063	6,063	6,063	5,787	5,957	6,063	6,063	71,982	70,780
202	Meat products.....	2,767	2,808	2,866	2,767	8,621	8,745	8,745	2,509	2,509	2,509	2,509	2,541	2,731	2,855	2,796	33,862	33,862
207	Beverages.....	1,404	1,437	1,437	1,437	3,477	3,477	3,477	1,416	1,416	1,416	1,416	1,416	1,550	1,571	1,596	14,855	14,855
208	Fats and oils.....	8,852	9,090	9,015	9,417	26,957	27,555	27,555	8,189	8,189	8,189	8,189	8,086	8,795	9,241	9,238	108,940	108,940
209	All other foods.....	1,311	1,311	1,311	1,311	3,167	3,167	3,167	1,311	1,311	1,311	1,311	1,162	1,162	1,111	1,111	12,519	12,519
21	Tobacco products.....	6,635	6,635	6,635	6,635	19,440	19,440	19,440	6,635	6,635	6,635	6,635	6,635	6,635	6,635	6,635	75,269	75,269
22	Textile mill products.....	2,623	2,626	2,626	2,626	7,965	7,965	7,965	2,623	2,626	2,626	2,626	2,626	2,626	2,626	2,626	29,429	29,429
26	Paper and allied products.....	1,490	1,481	1,511	1,516	4,482	4,578	4,578	1,337	1,337	1,337	1,337	1,337	1,337	1,337	1,337	18,741	18,741
261-3	Pulp, paper, etc.....	2,332	2,367	2,364	2,364	6,993	6,987	6,987	1,117	1,117	1,117	1,117	1,117	1,117	1,117	1,117	10,688	10,688
28	Chemical and allied products.....	14,603	13,366	14,597	14,597	41,606	42,482	42,482	13,262	13,163	13,163	14,840	13,366	13,366	13,366	13,366	175,123	175,123
281,6	Crude petroleum.....	4,596	4,388	4,596	4,596	13,310	13,310	13,384	4,406	4,406	4,406	4,406	4,406	4,406	4,406	4,406	63,730	63,730
283,4	Drugs, soaps, and toiletries.....	2,006	2,006	2,006	2,006	1,077	1,077	1,077	2,006	2,006	2,006	2,006	2,006	2,006	2,006	2,006	24,867	24,867
29	Petroleum and coal products.....	15,731	15,467	17,451	17,451	47,591	52,097	51,965	15,465	16,242	17,098	17,098	18,067	18,067	18,067	18,067	207,337	207,337
291	Rubber and plastics products.....	3,425	3,463	3,463	3,463	10,131	11,051	10,831	2,906	3,286	3,499	3,776	2,316	3,335	4,134	4,134	46,524	46,524
23	All other nonmetallic goods industries.....	1,411	11,848	11,546	11,768	35,405	35,497	35,709	11,209	11,209	11,209	11,209	11,209	11,209	11,209	11,209	147,733	147,733

¹ Preliminary.² Revised.

Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

This table is a summary of the separate industry categories as follows:

Household durable goods industries--household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances: radio and TV, phonographic records, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondurable goods industries--Except electrical (excluding farm machinery and equipment and machine tools), electrical machinery (excluding household appliances, radio and TV, and electronic components), and some consumer portions of shipbuilding and repairing and maintenance of ships and aircraft.

Textile mill products--Textile mill products, except communication equipment, communication equipment, aircraft and aircraft parts, and shipbuilding.

Paper and allied products--Paper and allied products, except communication equipment, communication equipment, aircraft and aircraft parts, and shipbuilding.

Tobacco products--Tobacco products, except communication equipment, communication equipment, aircraft and aircraft parts, and shipbuilding.

Food products--Food products, except communication equipment, communication equipment, aircraft and aircraft parts, and shipbuilding.

Meat products--Meat products, except communication equipment, communication equipment, aircraft and aircraft parts, and shipbuilding.

Beverages--Beverages, except communication equipment, communication equipment, aircraft and aircraft parts, and shipbuilding.

Fats and oils--Fats and oils, except communication equipment, communication equipment, aircraft and aircraft parts, and shipbuilding.

All other foods--All other foods, except communication equipment, communication equipment, aircraft and aircraft parts, and shipbuilding.

Textile mill products--Textile mill products, except communication equipment, communication equipment, aircraft and aircraft parts, and shipbuilding.

Paper and allied products--Paper and allied products, except communication equipment, communication equipment, aircraft and aircraft parts, and shipbuilding.

Pulp, paper, etc.--Pulp, paper, etc., except communication equipment, communication equipment, aircraft and aircraft parts, and shipbuilding.

All other paper products--All other paper products, except communication equipment, communication equipment, aircraft and aircraft parts, and shipbuilding.

Chemical and allied products--Chemical and allied products, except communication equipment, communication equipment, aircraft and aircraft parts, and shipbuilding.

Crude petroleum--Crude petroleum, except communication equipment, communication equipment, aircraft and aircraft parts, and shipbuilding.

Drugs, soaps, and toiletries--Drugs, soaps, and toiletries, except communication equipment, communication equipment, aircraft and aircraft parts, and shipbuilding.

Petroleum and coal products--Petroleum and coal products, except communication equipment, communication equipment, aircraft and aircraft parts, and shipbuilding.

Rubber and plastics products--Rubber and plastics products, except communication equipment, communication equipment, aircraft and aircraft parts, and shipbuilding.

All other nonmetallic goods industries--All other nonmetallic goods industries, except communication equipment, communication equipment, aircraft and aircraft parts, and shipbuilding.

billions of dollars

Industry	Seasonally adjusted				Subseries				Yearly				Annually	
	Monthly				Quarterly				Yearly				Yearly	
	Nov. 1947	Oct. 1948	Sept. 1949	Dec. 1949	1947	1948	1949	1950	1947	1948	1949	1950	1947	1950
	1947p	1948p	1949p	1949p	1947p	1948p	1949p	1949p	1947p	1948p	1949p	1949p	1947p	1950p
TOTALS														
All manufacturing industries.....	17,622	130,362	129,606	129,196	136,114	128,377	117,340	126,381	113,411	107,420	127,180	127,209	1,067,852	1,067,174
Manufacturing industries.....	16,081	125,390	115,429	121,436	131,566	126,536	114,622	123,239	113,182	106,313	126,477	126,477	1,067,000	1,066,701
Nonmanufacturing industries.....	1,541	7,972	14,177	7,760	4,548	11,841	14,764	13,142	4,229	11,107	10,743	10,743	1,067,852	1,067,174
Manufacturing industries without unfilled orders.....	14,541	117,418	107,912	113,746	127,018	122,595	110,408	120,097	110,408	104,000	124,732	124,732	1,067,000	1,066,701
Nonmanufacturing industries without unfilled orders.....	900	6,554	13,865	4,014	3,530	9,246	13,356	11,045	3,821	7,307	6,711	6,711	1,067,852	1,067,174
Durable goods industries.....	24,729	206,647	206,408	206,408	206,408	206,408	206,408	206,408	206,408	206,408	206,408	206,408	206,408	206,408
Durable goods with unfilled orders.....	24,729	206,647	206,408	206,408	206,408	206,408	206,408	206,408	206,408	206,408	206,408	206,408	206,408	206,408
Non-durable goods industries.....	6,710	48,976	58,198	63,493	183,552	183,552	183,552	183,552	183,552	183,552	183,552	183,552	183,552	183,552
Non-durable goods with unfilled orders.....	6,710	48,976	58,198	63,493	183,552	183,552	183,552	183,552	183,552	183,552	183,552	183,552	183,552	183,552
Industries with unfilled orders.....	17,111	17,427	16,822	17,111	17,111	17,111	17,111	17,111	17,111	17,111	17,111	17,111	17,111	17,111
Industries without unfilled orders.....	61,595	66,408	63,476	63,476	63,476	63,476	63,476	63,476	63,476	63,476	63,476	63,476	63,476	63,476
MARKET CATEGORIES														
Household and apparel.....	10,902	10,902	10,902	10,902	10,902	10,902	10,902	10,902	10,902	10,902	10,902	10,902	10,902	10,902
Consumer staples.....	39,066	39,066	39,066	39,066	39,066	39,066	39,066	39,066	39,066	39,066	39,066	39,066	39,066	39,066
Consumer durables.....	2,617	2,617	2,617	2,617	2,617	2,617	2,617	2,617	2,617	2,617	2,617	2,617	2,617	2,617
Automotive equipment.....	10,971	10,971	10,971	10,971	10,971	10,971	10,971	10,971	10,971	10,971	10,971	10,971	10,971	10,971
Construction materials, supplies, and intermediate products.....	11,700	10,876	11,205	11,205	11,205	11,205	11,205	11,205	11,205	11,205	11,205	11,205	11,205	11,205
Other services, schools, and intermediate products.....	66,434	66,434	66,434	66,434	66,434	66,434	66,434	66,434	66,434	66,434	66,434	66,434	66,434	66,434
SUPPLEMENTARY SERIES														
Household durable goods, industries.....	6,666	6,666	6,666	6,666	6,666	6,666	6,666	6,666	6,666	6,666	6,666	6,666	6,666	6,666
Capital goods industries.....	11,080	11,080	11,080	11,080	11,080	11,080	11,080	11,080	11,080	11,080	11,080	11,080	11,080	11,080
Non-durable goods.....	20,193	20,193	20,193	20,193	20,193	20,193	20,193	20,193	20,193	20,193	20,193	20,193	20,193	20,193
Defense.....	12,447	12,447	12,447	12,447	12,447	12,447	12,447	12,447	12,447	12,447	12,447	12,447	12,447	12,447
INDUSTRY GROUPS AND INDUSTRIES														
Durable goods industries	4,731	3,715	3,876	3,876	3,876	3,876	3,876	3,876	3,876	3,876	3,876	3,876	3,876	3,876
Stone, clay, and glass.....	6,872	6,872	6,872	6,872	6,872	6,872	6,872	6,872	6,872	6,872	6,872	6,872	6,872	6,872
Primary metals.....	2,517	2,517	2,517	2,517	2,517	2,517	2,517	2,517	2,517	2,517	2,517	2,517	2,517	2,517
Nonferrous and other primary metals.....	4,762	4,762	4,762	4,762	4,762	4,762	4,762	4,762	4,762	4,762	4,762	4,762	4,762	4,762
Fabricated metal products.....	6,480	6,480	6,480	6,480	6,480	6,480	6,480	6,480	6,480	6,480	6,480	6,480	6,480	6,480
Machinery, except electrical.....	14,111	12,970	13,824	13,824	13,824	13,824	13,824	13,824	13,824	13,824	13,824	13,824	13,824	13,824
Engines and turbines.....	929	929	929	929	929	929	929	929	929	929	929	929	929	929
Construction, mining, and other non-durable equipment.....	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830	1,830
General industrial machinery.....	1,238	1,238	1,238	1,238	1,238	1,238	1,238	1,238	1,238	1,238	1,238	1,238	1,238	1,238

See footnotes at end of table.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES (Continued)
(Millions of dollars)

SIC	Industry	Seasonally adjusted					Not seasonally adjusted ¹										Annual
		Monthly					Monthly										
		Quarterly					Last 4 months & year ago										
		Dec. 1982 ²	Nov. 1982 ²	Oct. 1982	Sept. 1982	Aug. 1982 ²	Dec. 1982 ²	Nov. 1982 ²	Oct. 1982	Sept. 1982	Dec. 1981	Nov. 1981	Oct. 1981	Sept. 1981			
36	INDUSTRY GROUPS AND INDUSTRIES-- (continued)	12,685	12,193	11,115	12,025	35,993	36,101	12,353	11,487	12,127	12,262	11,230	11,729	11,552	12,769	13,427	141,836
361, 2	Durable goods industries-- (continued)	1,686	1,828	1,504	1,639	5,018	4,771	1,554	1,716	1,533	1,629	1,72	1,849	1,493	1,899	1,744	22,458
363	Electrical machinery.....	1,039	1,115	1,022	1,160	3,176	3,157	1,086	1,022	1,060	1,126	908	940	1,011	1,188	1,130	13,387
365	Household appliances.....	589	597	484	650	1,670	1,872	2,351	607	538	701	694	662	567	1,024	7,657	8,693
366	Radio and TV.....	4,368	4,308	3,723	4,556	12,859	13,296	4,944	4,061	4,676	4,593	3,747	3,713	3,883	4,227	5,011	48,851
367	Communication equipment.....	2,722	2,412	2,582	2,776	7,716	7,039	2,382	2,476	2,544	2,250	2,317	2,382	2,289	2,260	2,423	38,834
369	Electronic components.....	2,722	2,412	2,582	2,776	7,716	7,039	2,382	2,476	2,544	2,250	2,317	2,382	2,289	2,260	2,423	38,834
37	Transportation equipment.....	21,544	14,567	14,467	14,828	30,375	48,427	21,226	14,731	17,468	16,521	14,260	15,152	16,311	18,032	16,624	202,464
372, 6	Aircraft, missiles, and parts.....	7,166	5,193	5,108	4,181	17,467	14,345	7,810	4,738	6,739	5,027	5,945	4,973	6,131	7,001	6,766	66,145
3731	Shipbuilding and military equipment.....	5,339	942	727	376	7,008	1,275	2,680	882	730	954	273	1,004	971	1,143	1,364	12,162
3755	Instruments and related products.....	3,650	3,826	3,691	4,135	11,167	11,886	3,735	3,404	3,827	4,336	4,021	4,062	4,992	4,189	40,461	47,499
24	All other durable goods industries.....	7,659	7,684	7,795	7,797	23,128	23,379	6,816	7,593	8,348	8,272	6,979	7,541	8,491	8,558	93,483	94,905

¹Preliminary.

²Revised.

Figures and one order are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture, kitchen articles and pottery, cutlery, handtools, and hardware; household appliances, ratio and TV, and life-form components, and assets personal goods.
Nondefense products--Comparable to the previous producers' capital goods and the defense products (old series) categories.
Nondefense products--machinery, except electrical (excluding farm machinery and equipment) and other machinery (excluding household appliances, ratio and TV, and life-form components, and the non-defense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and airplane).
Defense products--based on separate reports on defense work filed by large-defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.
The data are comparable to those published annually in the Q-1's. Shipments to Federal Government agencies (except shipbuilding and aircraft industries) in the Q-1's are not included.

Table 3. VALUE OF MANUFACTURERS' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--continued

2 Preliminary

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are of the end of the period and are not adjusted for trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

Millions of dollars

Industry	Quarterly				Quarterly				Monthly			
	1987				1988				1987			
	Actual	Estimated	Actual	Estimated	Actual	Estimated	Actual	Estimated	Actual	Estimated	Actual	Estimated
POLAND												
All manufacturing industries.....	269,287	261,747	269,287	261,747	269,287	261,747	269,287	261,747	269,287	261,747	269,287	261,747
Food processing industries, ex- cluding tobacco products.....	27,663	27,663	27,663	27,663	27,663	27,663	27,663	27,663	27,663	27,663	27,663	27,663
Manufacturing industries with million orders.....	186,476	186,476	186,476	186,476	186,476	186,476	186,476	186,476	186,476	186,476	186,476	186,476
Textile goods industries.....	177,663	177,663	177,663	177,663	177,663	177,663	177,663	177,663	177,663	177,663	177,663	177,663
Nonmetallic mineral products industries.....	169,417	169,417	169,417	169,417	169,417	169,417	169,417	169,417	169,417	169,417	169,417	169,417
Nonmetallic goods industries.....	86,476	86,476	86,476	86,476	86,476	86,476	86,476	86,476	86,476	86,476	86,476	86,476
Manufacturing industries with million orders.....	27,663	27,663	27,663	27,663	27,663	27,663	27,663	27,663	27,663	27,663	27,663	27,663
UNITED KINGDOM												
Food and drink.....	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481
Textiles, clothing and apparel.....	35,414	35,414	35,414	35,414	35,414	35,414	35,414	35,414	35,414	35,414	35,414	35,414
Chemical and allied products.....	79,114	79,114	79,114	79,114	79,114	79,114	79,114	79,114	79,114	79,114	79,114	79,114
Transportation equipment.....	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481
Construction materials, supplies and other materials.....	19,847	19,847	19,847	19,847	19,847	19,847	19,847	19,847	19,847	19,847	19,847	19,847
Intermediate products.....	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481
FRANCE												
Food and drink.....	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481
Textiles, clothing and apparel.....	35,414	35,414	35,414	35,414	35,414	35,414	35,414	35,414	35,414	35,414	35,414	35,414
Chemical and allied products.....	79,114	79,114	79,114	79,114	79,114	79,114	79,114	79,114	79,114	79,114	79,114	79,114
Transportation equipment.....	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481
Construction materials, supplies and other materials.....	19,847	19,847	19,847	19,847	19,847	19,847	19,847	19,847	19,847	19,847	19,847	19,847
Intermediate products.....	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481
WEST GERMANY												
Food and drink.....	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481
Textiles, clothing and apparel.....	35,414	35,414	35,414	35,414	35,414	35,414	35,414	35,414	35,414	35,414	35,414	35,414
Chemical and allied products.....	79,114	79,114	79,114	79,114	79,114	79,114	79,114	79,114	79,114	79,114	79,114	79,114
Transportation equipment.....	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481
Construction materials, supplies and other materials.....	19,847	19,847	19,847	19,847	19,847	19,847	19,847	19,847	19,847	19,847	19,847	19,847
Intermediate products.....	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481
NET EXPORTS AND IMPORTS												
Exports.....	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481
Imports.....	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481	1,481

See footnotes at end of table.

Year	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597
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Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent change							Revision ²		
	Month-to-month			Average monthly rate of change ¹				Year ago Dec. 1981	Average monthly	
	Nov. 1982- Dec. 1982	Oct. 1982- Nov. 1982	Sept. 1982- Oct. 1982	Fourth quarter 1982	Third quarter 1982	Second quarter 1982	Jan. 1982- through Dec. 1982		Dec. 1981 through Nov. 1982	Dec. 1977- 1981
Shipments:										
All manufacturing industries.....	-0.6	-0.1	-4.3	-1.7	-0.5	+0.8	-0.4	0.4	0.3	0.7
Durable goods industries.....	-0.1	+0.5	-5.5	-1.7	-1.0	+0.3	-0.7	0.2	0.3	0.8
Nondurable goods industries.....	-1.1	-0.6	-3.1	-1.6	0.0	+1.3	-0.2	0.5	0.4	0.5
Inventories:										
All manufacturing industries.....	-1.0	-0.9	-0.3	-0.7	-0.3	-0.6	-0.5	0.3	0.1	0.1
New orders:										
All manufacturing industries.....	+4.8	+0.4	-4.1	+0.3	-0.2	0.0	+0.1	0.5	0.3	0.7
Durable goods industries.....	+11.5	+1.4	-5.0	+2.4	0.0	-1.4	+0.2	0.5	0.6	0.4
Nondurable goods industries.....	-1.1	-0.4	-3.4	-1.6	+0.2	+1.3	-0.1	0.5	0.4	0.4
Unfilled orders:										
Durable goods industries.....	+2.2	-0.7	-1.0	+0.1	-1.2	-1.0	-0.6	0.0	0.1	0.1

- Represents zero.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	December 1982	November 1982	October 1982	September 1982	December 1982	November 1982	October 1982	September 1982
All manufacturing industries.....	1.76	1.77	1.78	1.71	1.80	1.72	1.77	1.63
Durable goods industries.....	2.45	2.47	2.51	2.34	4.72	4.61	4.66	4.46
Stone, clay, and glass products.....	1.66	1.72	1.72	1.67	0.51	0.52	0.52	0.52
Primary metals.....	2.44	3.16	3.09	2.91	2.72	2.91	2.75	2.66
Fabricated metals.....	2.00	1.99	2.09	2.00	2.77	2.75	2.93	2.80
Machinery, except electrical.....	2.88	2.88	3.03	2.79	4.25	4.20	4.46	4.04
Electrical machinery.....	2.37	2.40	2.38	2.13	5.21	5.07	4.95	4.86
Transportation equipment.....	2.64	2.65	2.69	2.47	11.89	11.55	11.58	11.51
Instruments and related products.....	2.43	2.47	2.50	2.32	1.87	1.90	1.89	1.77
Nondurable goods industries.....	1.13	1.13	1.12	1.08	0.55	0.54	0.54	0.54
Food and kindred products.....	0.91	0.89	0.89	0.86	(X)	(X)	(X)	(X)
Tobacco products.....	3.38	4.12	3.66	2.97	(X)	(X)	(X)	(X)
Textile mill products.....	1.54	1.60	1.55	1.52	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.38	1.37	1.36	1.36	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.42	1.43	1.51	1.41	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.59	0.59	0.53	0.53	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.76	1.66	1.67	1.55	(X)	(X)	(X)	(X)

(NA) Not available.

^PPreliminary.^RRevised.

(X) Not applicable.

¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

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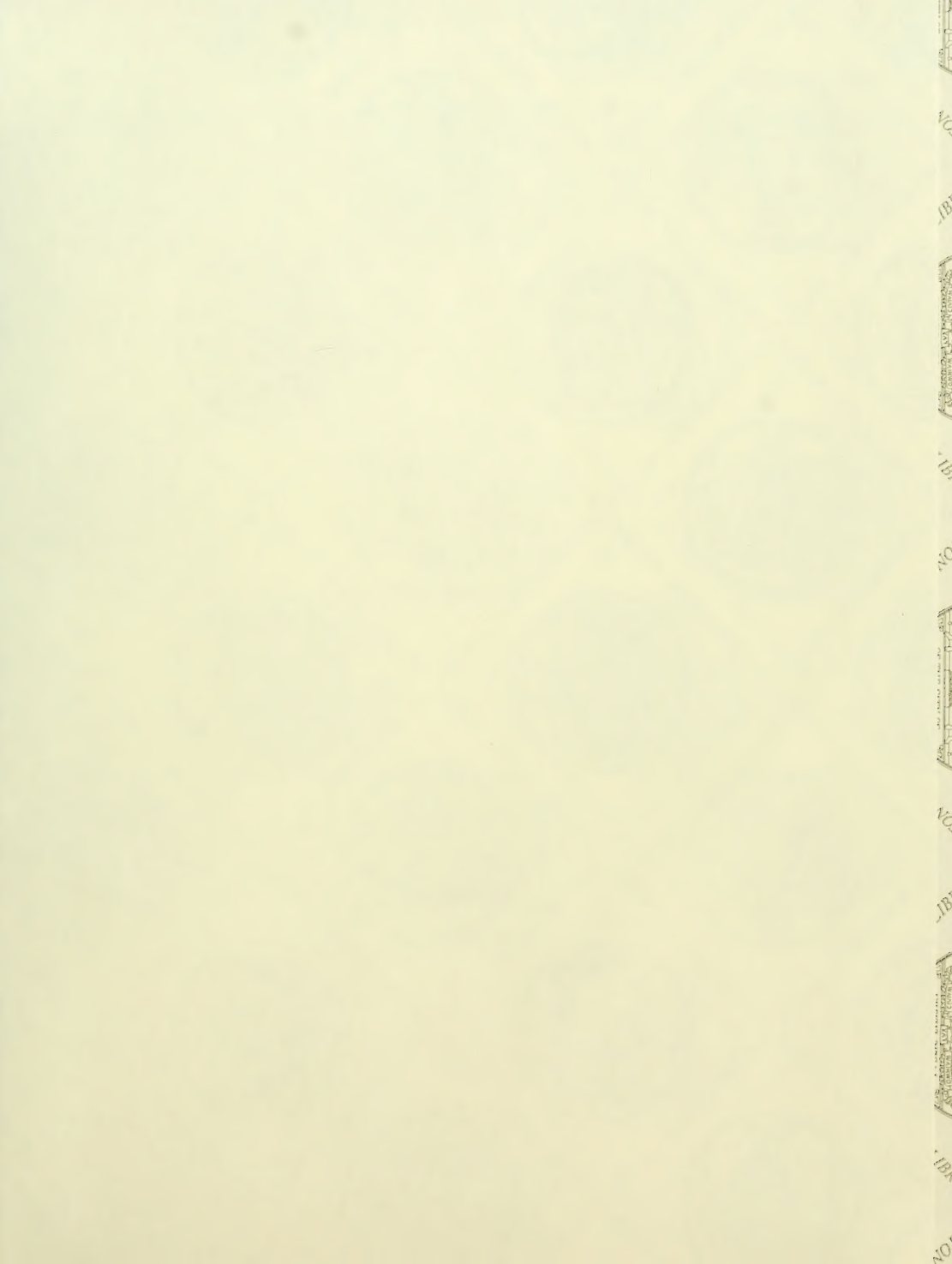
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